

# FEDERAL OPERATING PERMIT

A FEDERAL OPERATING PERMIT IS HEREBY ISSUED TO  
Sandy Creek Services, LLC

AUTHORIZING THE OPERATION OF  
Sandy Creek Energy Station  
Electric Services

LOCATED AT  
McLennan County, Texas  
Latitude 31° 28' 27" Longitude 96° 57' 18"  
Regulated Entity Number: RN104136700

This permit is issued in accordance with and subject to the Texas Clean Air Act (TCAA), Chapter 382 of the Texas Health and Safety Code and Title 30 Texas Administrative Code Chapter 122 (30 TAC Chapter 122), Federal Operating Permits. Under 30 TAC Chapter 122, this permit constitutes the permit holder's authority to operate the site, emission units and affected source listed in this permit. Operations of the site, emission units and affected source listed in this permit are subject to all additional rules or amended rules and orders of the Commission pursuant to the TCAA.

This permit does not relieve the permit holder from the responsibility of obtaining New Source Review authorization for new, modified, or existing facilities in accordance with 30 TAC Chapter 116, Control of Air Pollution by Permits for New Construction or Modification.

The site, emission units and affected source authorized by this permit shall be operated in accordance with 30 TAC Chapter 122, the general terms and conditions, special terms and conditions, and attachments contained herein.

This permit shall expire five years from the date of issuance. The renewal requirements specified in 30 TAC § 122.241 must be satisfied in order to renew the authorization to operate the site, emission units and affected source.

Permit No: Q3336 Issuance Date: \_\_\_\_\_

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For the Commission

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## **General Terms and Conditions**

The permit holder shall comply with all terms and conditions contained in 30 TAC § 122.143 (General Terms and Conditions), 30 TAC § 122.144 (Recordkeeping Terms and Conditions), 30 TAC § 122.145 (Reporting Terms and Conditions), and 30 TAC § 122.146 (Compliance Certification Terms and Conditions).

In accordance with 30 TAC § 122.144(1), records of required monitoring data and support information required by this permit, or any applicable requirement codified in this permit, are required to be maintained for a period of five years from the date of the monitoring report, sample, or application unless a longer data retention period is specified in an applicable requirement. The five year record retention period supersedes any less stringent retention requirement that may be specified in a condition of a permit identified in the New Source Review Authorization attachment.

If the permit holder chooses to demonstrate that this permit is no longer required, a written request to void this permit shall be submitted to the Texas Commission on Environmental Quality (TCEQ) by the Responsible Official in accordance with 30 TAC § 122.161(e). The permit holder shall comply with the permit's requirements, including compliance certification and deviation reporting, until notified by the TCEQ that this permit is voided.

The permit holder shall comply with 30 TAC Chapter 116 by obtaining a New Source Review authorization prior to new construction or modification of emission units located in the area covered by this permit.

All reports required by this permit must include in the submittal a cover letter which identifies the following information: company name, TCEQ regulated entity number, air account number (if assigned), site name, area name (if applicable), and Air Permits Division permit number(s).

## **Special Terms and Conditions:**

### **Emission Limitations and Standards, Monitoring and Testing, and Recordkeeping and Reporting**

1. Permit holder shall comply with the following requirements:
  - A. Emission units (including groups and processes) in the Applicable Requirements Summary attachment shall meet the limitations, standards, equipment specifications, monitoring, recordkeeping, reporting, testing, and other requirements listed in the Applicable Requirements Summary attachment to assure compliance with the permit.
  - B. The textual description in the column titled "Textual Description" in the Applicable Requirements Summary attachment is not enforceable and is not deemed as a substitute for the actual regulatory language. The Textual Description is provided for information purposes only.
  - C. A citation listed on the Applicable Requirements Summary attachment, which has a notation [G] listed before it, shall include the referenced section and subsection for all commission rules, or paragraphs for all federal and state regulations and all subordinate paragraphs, subparagraphs and clauses, subclauses, and items contained within the referenced citation as applicable requirements.

- D. When a grouped citation, notated with a [G] in the Applicable Requirements Summary, contains multiple compliance options, the permit holder must keep records of when each compliance option was used.
  - E. Emission units subject to 40 CFR Part 63, Subparts ZZZZ and UUUUU as identified in the attached Applicable Requirements Summary table are subject to 30 TAC Chapter 113, Subchapter C, §§ 113.1090 and 113.1300 respectively, which incorporate the 40 CFR Part 63 Subparts by reference.
2. The permit holder shall comply with the following sections of 30 TAC Chapter 101 (General Air Quality Rules):
- A. Title 30 TAC § 101.1 (relating to Definitions), insofar as the terms defined in this section are used to define the terms used in other applicable requirements
  - B. Title 30 TAC § 101.3 (relating to Circumvention)
  - C. Title 30 TAC § 101.8 (relating to Sampling), if such action has been requested by the TCEQ
  - D. Title 30 TAC § 101.9 (relating to Sampling Ports), if such action has been requested by the TCEQ
  - E. Title 30 TAC § 101.10 (relating to Emissions Inventory Requirements)
  - F. Title 30 TAC § 101.201 (relating to Emission Event Reporting and Recordkeeping Requirements)
  - G. Title 30 TAC § 101.211 (relating to Scheduled Maintenance, Start-up, and Shutdown Reporting and Recordkeeping Requirements)
  - H. Title 30 TAC § 101.221 (relating to Operational Requirements)
  - I. Title 30 TAC § 101.222 (relating to Demonstrations)
  - J. Title 30 TAC § 101.223 (relating to Actions to Reduce Excessive Emissions)
3. Permit holder shall comply with the following requirements of 30 TAC Chapter 111:
- A. Visible emissions from stationary vents with a flow rate of less than 100,000 actual cubic feet per minute and constructed after January 31, 1972 that are not listed in the Applicable Requirements Summary attachment for 30 TAC Chapter 111, Subchapter A, Division 1, shall not exceed 20% opacity averaged over a six-minute period. The permit holder shall comply with the following requirements for stationary vents at the site subject to this standard:
    - (i) Title 30 TAC § 111.111(a)(1)(B) (relating to Requirements for Specified Sources)
    - (ii) Title 30 TAC § 111.111(a)(1)(E)
    - (iii) Title 30 TAC § 111.111(a)(1)(F)(i), (ii), (iii), or (iv)

- (iv) For emission units with vent emissions subject to 30 TAC § 111.111(a)(1)(B), complying with 30 TAC § 111.111(a)(1)(F)(ii), (iii), or (iv), and capable of producing visible emissions from, but not limited to, particulate matter, acid gases and NO<sub>x</sub>, the permit holder shall also comply with the following periodic monitoring requirements for the purpose of annual compliance certification under 30 TAC § 122.146. These periodic monitoring requirements do not apply to vents that are not capable of producing visible emissions such as vents that emit only colorless VOCs; vents from non-fuming liquids; vents that provide passive ventilation, such as plumbing vents; or vent emissions from any other source that does not obstruct the transmission of light. Vents, as specified in the “Applicable Requirements Summary” attachment, that are subject to the emission limitation of 30 TAC § 111.111(a)(1)(B) are not subject to the following periodic monitoring requirements:
- (1) An observation of stationary vents from emission units in operation shall be conducted at least once during each calendar quarter unless the emission unit is not operating for the entire quarter.
  - (2) For stationary vents from a combustion source, if an alternative to the normally fired fuel is fired for a period greater than or equal to 24 consecutive hours, the permit holder shall conduct an observation of the stationary vent for each such period to determine if visible emissions are present. If such period is greater than 3 months, observations shall be conducted once during each quarter. Supplementing the normally fired fuel with natural gas or fuel gas to increase the net heating value to the minimum required value does not constitute creation of an alternative fuel.
  - (3) Records of all observations shall be maintained.
  - (4) Visible emissions observations of emission units operated during daylight hours shall be conducted no earlier than one hour after sunrise and no later than one hour before sunset. Visible emissions observations of emission units operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions observations shall be made during times when the activities described in 30 TAC § 111.111(a)(1)(E) are not taking place. Visible emissions shall be determined with each stationary vent in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each stationary vent during the observation. For outdoor locations, the observer shall select a position where the sun is not directly in the observer’s eyes. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. A certified opacity reader is not required for visible emissions observations.

(5) Compliance Certification:

- (a) If visible emissions are not present during the observation, the RO may certify that the source is in compliance with the applicable opacity requirement in 30 TAC § 111.111(a)(1) and (a)(1)(B).
- (b) However, if visible emissions are present during the observation, the permit holder shall either list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2) or conduct the appropriate opacity test specified in 30 TAC § 111.111(a)(1)(F) as soon as practicable, but no later than 24 hours after observing visible emissions to determine if the source is in compliance with the opacity requirements. If an opacity test is performed and the source is determined to be in compliance, the RO may certify that the source is in compliance with the applicable opacity requirement. However, if an opacity test is performed and the source is determined to be out of compliance, the permit holder shall list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2). The opacity test must be performed by a certified opacity reader.
- (c) Some vents may be subject to multiple visible emission or monitoring requirements. All credible data must be considered when certifying compliance with this requirement even if the observation or monitoring was performed to demonstrate compliance with a different requirement.

B. For visible emissions from a building, enclosed facility, or other structure; the permit holder shall comply with the following requirements:

- (i) Title 30 TAC § 111.111(a)(7)(A) (relating to Requirements for Specified Sources)
- (ii) Title 30 TAC § 111.111(a)(7)(B)(i) or (ii)
- (iii) For a building containing an air emission source, enclosed facility, or other structure containing or associated with an air emission source subject to 30 TAC § 111.111(a)(7)(A), complying with 30 TAC § 111.111(a)(7)(B)(i) or (ii), and capable of producing visible emissions from, but not limited to, particulate matter, acid gases and NO<sub>x</sub>, the permit holder shall also comply with the following periodic monitoring requirements for the purpose of annual compliance certification under 30 TAC § 122.146:
  - (1) An observation of visible emissions from a building containing an air emission source, enclosed facility, or other structure containing or associated with an air emission source which is required to comply with 30 TAC § 111.111(a)(7)(A) shall be conducted at least once during each calendar quarter unless the

air emission source or enclosed facility is not operating for the entire quarter.

- (2) Records of all observations shall be maintained.
- (3) Visible emissions observations of air emission sources or enclosed facilities operated during daylight hours shall be conducted no earlier than one hour after sunrise and no later than one hour before sunset. Visible emissions observations of air emission sources or enclosed facilities operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions shall be determined with each emissions outlet in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each emissions outlet during the observation. For outdoor locations, the observer shall select a position where the sun is not directly in the observer's eyes. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. A certified opacity reader is not required for visible emissions observations.
- (4) Compliance Certification:
  - (a) If visible emissions are not present during the observation, the RO may certify that the source is in compliance with the applicable opacity requirement in 30 TAC § 111.111(a)(7) and (a)(7)(A)
  - (b) However, if visible emissions are present during the observation, the permit holder shall either list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2) or conduct the appropriate opacity test specified in 30 TAC § 111.111(a)(7)(B) as soon as practicable, but no later than 24 hours after observing visible emissions to determine if the source is in compliance with the opacity requirements. If an opacity test is performed and the source is determined to be in compliance, the RO may certify that the source is in compliance with the applicable opacity requirement. However, if an opacity test is performed and the source is determined to be out of compliance, the permit holder shall list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2). The opacity test must be performed by a certified opacity reader

- C. For visible emissions from all other sources not specified in 30 TAC § 111.111(a)(1), (4), or (7); the permit holder shall comply with the following requirements:

- (i) Title 30 TAC § 111.111(a)(8)(A) (relating to Requirements for Specified Sources)
- (ii) Title 30 TAC § 111.111(a)(8)(B)(i) or (ii)
- (iii) For a source subject to 30 TAC § 111.111(a)(8)(A), complying with 30 TAC § 111.111(a)(8)(B)(i) or (ii), and capable of producing visible emissions from, but not limited to, particulate matter, acid gases and NO<sub>x</sub>, the permit holder shall also comply with the following periodic monitoring requirements for the purpose of annual compliance certification under 30 TAC § 122.146:
  - (1) An observation of visible emissions from a source which is required to comply with 30 TAC § 111.111(a)(8)(A) shall be conducted at least once during each calendar quarter unless the source is not operating for the entire quarter.
  - (2) Records of all observations shall be maintained.
  - (3) Visible emissions observations of sources operated during daylight hours shall be conducted no earlier than one hour after sunrise and no later than one hour before sunset. Visible emissions observations of sources operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions shall be determined with each source in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each source during the observation. For outdoor locations, the observer shall select a position where the sun is not directly in the observer's eyes. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. A certified opacity reader is not required for visible emissions observations.
  - (4) Compliance Certification:
    - (a) If visible emissions are not present during the observation, the RO may certify that the source is in compliance with the applicable opacity requirement in 30 TAC § 111.111(a)(8) and (a)(8)(A)
    - (b) However, if visible emissions are present during the observation, the permit holder shall either list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2) or conduct the appropriate opacity test specified in 30 TAC § 111.111(a)(8)(B) as soon as practicable, but no later than 24 hours after observing visible emissions to determine if the source is in compliance with the opacity requirements. If an opacity test is performed and the

source is determined to be in compliance, the RO may certify that the source is in compliance with the applicable opacity requirement. However, if an opacity test is performed and the source is determined to be out of compliance, the permit holder shall list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2). The opacity test must be performed by a certified opacity reader.

- D. Certification of opacity readers determining opacities under Method 9 (as outlined in 40 CFR Part 60, Appendix A) to comply with opacity monitoring requirements shall be accomplished by completing the Visible Emissions Evaluators Course, or approved agency equivalent, no more than 180 days before the opacity reading.
  - E. For emission units with contributions from uncombined water, the permit holder shall comply with the requirements of 30 TAC § 111.111(b).
  - F. Emission limits on nonagricultural processes, except for the steam generators specified in 30 TAC § 111.153, shall comply with the following requirements:
    - (i) Emissions of PM from any source may not exceed the allowable rates as required in 30 TAC § 111.151(a) (relating to Allowable Emissions Limits)
    - (ii) Sources with an effective stack height ( $h_e$ ) less than the standard effective stack height ( $H_e$ ), must reduce the allowable emission level by multiplying it by  $[h_e/H_e]^2$  as required in 30 TAC § 111.151(b)
    - (iii) Effective stack height shall be calculated by the equation specified in 30 TAC § 111.151(c)
  - G. Outdoor burning, as stated in 30 TAC § 111.201, shall not be authorized unless the following requirements are satisfied:
    - (i) Title 30 TAC § 111.205 (relating to Exception for Fire Training)
    - (ii) Title 30 TAC § 111.207 (relating to Exception for Recreation, Ceremony, Cooking, and Warmth)
    - (iii) Title 30 TAC § 111.219 (relating to General Requirements for Allowable Outdoor Burning)
    - (iv) Title 30 TAC § 111.221 (relating to Responsibility for Consequences of Outdoor Burning)
4. The permit holder shall comply with the following requirements for units subject to any subpart of 40 CFR Part 60, unless otherwise stated in the applicable subpart:
- A. Title 40 CFR § 60.7 (relating to Notification and Recordkeeping)
  - B. Title 40 CFR § 60.8 (relating to Performance Tests)
  - C. Title 40 CFR § 60.11 (relating to Compliance with Standards and Maintenance Requirements)

- D. Title 40 CFR § 60.12 (relating to Circumvention)
  - E. Title 40 CFR § 60.13 (relating to Monitoring Requirements)
  - F. Title 40 CFR § 60.14 (relating to Modification)
  - G. Title 40 CFR § 60.15 (relating to Reconstruction)
  - H. Title 40 CFR § 60.19 (relating to General Notification and Reporting Requirements)
5. The permit holder shall comply with the requirements of 30 TAC Chapter 113, Subchapter C, § 113.100 for units subject to any subpart of 40 CFR Part 63, unless otherwise stated in the applicable subpart.

#### **Additional Monitoring Requirements**

6. Unless otherwise specified, the permit holder shall comply with the compliance assurance monitoring requirements as specified in the attached “CAM Summary” upon issuance of the permit. In addition, the permit holder shall comply with the following:
- A. The permit holder shall comply with the terms and conditions contained in 30 TAC § 122.147 (General Terms and Conditions for Compliance Assurance Monitoring).
  - B. The permit holder shall report, consistent with the averaging time identified in the “CAM Summary,” deviations as defined by the deviation limit in the “CAM Summary.” Any monitoring data below a minimum limit or above a maximum limit, that is collected in accordance with the requirements specified in 40 CFR § 64.7(c), shall be reported as a deviation. Deviations shall be reported according to 30 TAC § 122.145 (Reporting Terms and Conditions).
  - C. The permit holder may elect to collect monitoring data on a more frequent basis and average the data, consistent with the averaging time specified in the “CAM Summary,” for purposes of determining whether a deviation has occurred. However, the additional data points must be collected on a regular basis. In no event shall data be collected and used in particular instances in order to avoid reporting deviations. All monitoring data shall be collected in accordance with the requirements specified in 40 CFR § 64.7(c).
  - D. The permit holder shall operate the monitoring, identified in the attached “CAM Summary,” in accordance with the provisions of 40 CFR § 64.7.
  - E. Except for emission units using a CEMS, COMS or PEMS which meets the requirements of 40 CFR § 64.3(d)(2), the permit holder shall comply with either of the following requirements for any particulate matter capture system associated with the control device subject to CAM. If the results of the following inspections indicate that the capture system is not working properly, the permit holder shall promptly take necessary corrective action:
    - (i) Once per year the permit holder shall inspect any fan for proper operation and inspect the capture system used in compliance of CAM for cracks, holes, tears, and other defects; or

- (ii) Once per year, the permit holder shall inspect for fugitive emissions escaping from the capture system in compliance of CAM by performing a visible emissions observation for a period of at least six minutes in accordance with 40 CFR Part 60, Appendix A, Test Method 22.
- F. The permit holder shall comply with the requirements of 40 CFR § 70.6(a)(3)(ii)(A) and 30 TAC § 122.144(1)(A)-(F) for documentation of all required inspections.
- 7. The permit holder shall comply with the periodic monitoring requirements as specified in the attached "Periodic Monitoring Summary" upon issuance of the permit. Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the permit holder shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating. The permit holder may elect to collect monitoring data on a more frequent basis and average the data, consistent with the averaging time specified in the "Periodic Monitoring Summary," for purposes of determining whether a deviation has occurred. However, the additional data points must be collected on a regular basis. In no event shall data be collected and used in particular instances to avoid reporting deviations. Deviations shall be reported according to 30 TAC § 122.145 (Reporting Terms and Conditions).

#### **New Source Review Authorization Requirements**

- 8. Permit holder shall comply with the requirements of New Source Review authorizations issued or claimed by the permit holder for the permitted area, including permits, permits by rule, standard permits, flexible permits, special permits, permits for existing facilities including Voluntary Emissions Reduction Permits and Electric Generating Facility Permits issued under 30 TAC Chapter 116, Subchapter I, or special exemptions referenced in the New Source Review Authorization References attachment. These requirements:
  - A. Are incorporated by reference into this permit as applicable requirements
  - B. Shall be located with this operating permit
  - C. Are not eligible for a permit shield
- 9. The permit holder shall comply with the general requirements of 30 TAC Chapter 106, Subchapter A or the general requirements, if any, in effect at the time of the claim of any PBR.
- 10. The permit holder shall maintain records to demonstrate compliance with any emission limitation or standard that is specified in a permit by rule (PBR) or Standard Permit listed in the New Source Review Authorizations attachment. The records shall yield reliable data from the relevant time period that are representative of the emission unit's compliance with the PBR or Standard Permit. These records may include, but are not limited to, production capacity and throughput, hours of operation, safety data sheets (SDS), chemical composition of raw materials, speciation of air contaminant data, engineering calculations, maintenance records, fugitive data, performance tests, capture/control device efficiencies, direct pollutant monitoring (CEMS, COMS, or PEMS), or control device parametric monitoring. These records shall be made readily accessible and available as required by 30 TAC § 122.144. Any monitoring or recordkeeping data

indicating noncompliance with the PBR or Standard Permit shall be considered and reported as a deviation according to 30 TAC § 122.145 (Reporting Terms and Conditions).

11. The permit holder shall comply with the following requirements for Air Quality Standard Permits:
  - A. Registration requirements listed in 30 TAC § 116.611, unless otherwise provided for in an Air Quality Standard Permit
  - B. General Conditions listed in 30 TAC § 116.615, unless otherwise provided for in an Air Quality Standard Permit
  - C. Boiler Standard Permit

### **Compliance Requirements**

12. The permit holder shall certify compliance in accordance with 30 TAC § 122.146. The permit holder shall comply with 30 TAC § 122.146 using at a minimum, but not limited to, the continuous or intermittent compliance method data from monitoring, recordkeeping, reporting, or testing required by the permit and any other credible evidence or information. The certification period may not exceed 12 months and the certification must be submitted within 30 days after the end of the period being certified.
13. Use of Discrete Emission Credits to comply with the applicable requirements:
  - A. Unless otherwise prohibited, the permit holder may use discrete emission credits to comply with the following applicable requirements listed elsewhere in this permit:
    - (i) Title 30 TAC Chapter 115
    - (ii) Title 30 TAC Chapter 117
    - (iii) If applicable, offsets for Title 30 TAC Chapter 116
    - (iv) Temporarily exceed state NSR permit allowables
  - B. The permit holder shall comply with the following requirements in order to use the credit to comply with the applicable requirements:
    - (i) The permit holder must notify the TCEQ according to 30 TAC § 101.376(d)
    - (ii) The discrete emission credits to be used must meet all the geographic, timeliness, applicable pollutant type, and availability requirements listed in 30 TAC Chapter 101, Subchapter H, Division 4
    - (iii) The executive director has approved the use of the discrete emission credits according to 30 TAC § 101.376(d)(1)(A)

- (iv) The permit holder keeps records of the use of credits towards compliance with the applicable requirements in accordance with 30 TAC § 101.372(h) and 30 TAC Chapter 122
- (v) Title 30 TAC § 101.375 (relating to Emission Reductions Achieved Outside the United States)

#### **Permit Location**

- 14. The permit holder shall maintain a copy of this permit and records related to requirements listed in this permit on site.

#### **Permit Shield (30 TAC § 122.148)**

- 15. A permit shield is granted for the emission units, groups, or processes specified in the attached "Permit Shield." Compliance with the conditions of the permit shall be deemed compliance with the specified potentially applicable requirements or specified potentially applicable state-only requirements listed in the attachment "Permit Shield." Permit shield provisions shall not be modified by the executive director until notification is provided to the permit holder. No later than 90 days after notification of a change in a determination made by the executive director, the permit holder shall apply for the appropriate permit revision to reflect the new determination. Provisional terms are not eligible for this permit shield. Any term or condition, under a permit shield, shall not be protected by the permit shield if it is replaced by a provisional term or condition or the basis of the term and condition changes.

#### **Acid Rain Permit Requirements**

- 16. For unit S01 (identified in the Certificate of Representation as unit S01), located at the affected source identified by ORIS/Facility code 56611, the designated representative and the owner or operator, as applicable, shall comply with the following Acid Rain Permit requirements.
  - A. General Requirements
    - (i) Under 30 TAC § 122.12(1) and 40 CFR Part 72, the Acid Rain Permit requirements contained here are a separable portion of the Federal Operating Permit (FOP) and have an independent public comment process which may be separate from, or combined with the FOP.
    - (ii) The owner and operator shall comply with the requirements of 40 CFR Part 72 and 40 CFR Part 76. Any noncompliance with the Acid Rain Permit will be considered noncompliance with the FOP and may be subject to enforcement action.
    - (iii) The owners and operators of the affected source shall operate the source and the unit in compliance with the requirements of this Acid Rain Permit and all other applicable State and federal requirements.
    - (iv) The owners and operators of the affected source shall comply with the General Terms and Conditions of the FOP that incorporates this Acid Rain Permit.

- (v) The term for the Acid Rain permit shall commence with the issuance of the FOP that incorporates the Acid Rain permit and shall be run concurrent with the remainder of the term of the FOP. Renewal of the Acid Rain permit shall coincide with the renewal of the FOP that incorporates the Acid Rain permit and subsequent terms shall be no more than five years from the date of renewal of the FOP and run concurrent with the permit term of the FOP.

B. Monitoring Requirements

- (i) The owners and operators, and the designated representative, of the affected source and each affected unit at the source shall comply with the monitoring requirements contained 40 CFR Part 75.
- (ii) The emissions measurements recorded and reported in accordance with 40 CFR Part 75 and any other credible evidence shall be used to determine compliance by the affected source with the acid rain emissions limitations and emissions reduction requirements for SO<sub>2</sub> and NO<sub>x</sub> under the ARP.
- (iii) The requirements of 40 CFR Part 75 shall not affect the responsibility of the owners and operators to monitor emission of other pollutants or other emissions characteristics at the unit under other applicable requirements of the FCAA Amendments (42 U.S.C. 7401, as amended November 15, 1990) and other terms and conditions of the operating permit for the source.

C. SO<sub>2</sub> emissions requirements

- (i) The owners and operators of each source and each affected unit at the source shall comply with the applicable acid rain emissions limitations for SO<sub>2</sub>.
- (ii) As of the allowance transfer deadline the owners and operators of the affected source and each affected unit at the source shall hold, in the unit's compliance subaccount, allowances in an amount not less than the total annual emissions of SO<sub>2</sub> for the previous calendar year.
- (iii) Each ton of SO<sub>2</sub> emitted in excess of the acid rain emissions limitations for SO<sub>2</sub> shall constitute a separate violation of the FCAA amendments.
- (iv) An affected unit shall be subject to the requirements under (i) and (ii) of the SO<sub>2</sub> emissions requirements as follows:
  - (1) Starting January 1, 2000, an affected unit under 40 CFR § 72.6(a)(2); or
  - (2) Starting on the later of January 1, 2000 or the deadline for monitor certification under 40 CFR Part 75, an affected unit under 40 CFR § 72.6(a)(3).
- (v) Allowances shall be held in, deducted from, or transferred into or among Allowance Tracking System accounts in accordance with the requirements of the ARP.

- (vi) An allowance shall not be deducted, for compliance with the requirements of this permit, in a calendar year before the year for which the allowance was allocated.
- (vii) An allowance allocated by the EPA Administrator or under the ARP is a limited authorization to emit SO<sub>2</sub> in accordance with the ARP. No provision of the ARP, Acid Rain permit application, this Acid Rain Permit, or an exemption under 40 CFR §§ 72.7 or 72.8 and no provision of law shall be construed to limit the authority of the United States to terminate or limit such authorization.
- (viii) An allowance allocated by the EPA Administrator under the ARP does not constitute a property right.

D. NO<sub>x</sub> Emission Requirements

- (i) The owners and operators of the source and each affected unit at the source shall comply with the applicable acid rain emissions limitations for NO<sub>x</sub> under 40 CFR Part 76.

E. Excess emissions requirements for SO<sub>2</sub> and NO<sub>x</sub>.

- (i) The designated representative of an affected unit that has excess emissions in any calendar year shall submit a proposed offset plan, as required under 40 CFR Part 77.
- (ii) If an affected source has excess emissions in any calendar year shall, as required by 40 CFR Part 77:
  - (1) Pay, without demand, the penalty required and pay, upon demand, the interest on that penalty.
  - (2) Comply with the terms of an approved offset plan.

F. Recordkeeping and Reporting Requirements

- (i) Unless otherwise provided, the owners and operators of the affected source and each affected unit at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the permitting authority or the EPA Administrator.
  - (1) The certificate of representation for the designated representative for the source and each affected unit and all documents that demonstrate the truth of the statements in the certificate of representation, in accordance with 40 CFR § 72.24; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such documents are superseded because of the submission of a new certificate of representation changing the designated representative.
  - (2) All emissions monitoring information, in accordance with 40 CFR Part 75, provided that to the extent that 40 CFR Part 75 provides

for a 3-year period for recordkeeping (rather than a five-year period cited in 30 TAC § 122.144), the 3-year period shall apply.

- (3) Copies of all reports, compliance certifications, and other submissions and all records made or required under the ARP or relied upon for compliance certification.
- (4) Copies of all documents used to complete an acid rain permit application and any other submission under the ARP or to demonstrate compliance with the requirements of the ARP.
- (ii) The designated representative of an affected source and each affected unit at the source shall submit the reports required under the ARP including those under 40 CFR Part 72, Subpart I and 40 CFR Part 75.

G. Liability

- (i) Any person who knowingly violates any requirement or prohibition of the ARP, a complete acid rain permit application, an acid rain permit, or a written exemption under 40 CFR §§ 72.7 or 72.8, including any requirement for the payment of any penalty owed to the United States, shall be subject to enforcement pursuant to FCAA § 113(c).
- (ii) Any person who knowingly makes a false, material statement in any record, submission, or report under the ARP shall be subject to criminal enforcement pursuant to FCAA § 113(c) and 18 U.S.C. 1001.
- (iii) No permit revision shall excuse any violation of the requirements of the ARP that occurs prior to the date that the revision takes effect.
- (iv) The affected source and each affected unit shall meet the requirements of the ARP contained in 40 CFR Parts 72 through 78.
- (v) Any provision of the ARP that applies to an affected source or the designated representative of an affected source shall also apply to the owners and operators of such source and of the affected units at the source.
- (vi) Any provision of the ARP that applies to an affected unit (including a provision applicable to the DR of an affected unit) shall also apply to the owners and operators of such unit. Except as provided under 40 CFR § 72.44 (Phase II repowering extension plans) and 40 CFR § 76.11 (NO<sub>x</sub> averaging plans), and except with regard to the requirements applicable to units with a common stack under 40 CFR Part 75 (including 40 CFR §§ 75.16, 75.17, and 75.18), the owners and operators and the DR of one affected unit shall not be liable for any violation by any other affected unit of which they are not owners or operators or the DR and that is located at a source of which they are not owners or operators or the DR.
- (vii) Each violation of a provision of 40 CFR Parts 72, 73, 74, 75, 76, 77, and 78 by an affected source or affected unit, or by an owner or operator or DR of such source or unit, shall be a separate violation of the FCAA Amendments.

- H. Effect on other authorities. No provision of the ARP, an acid rain permit application, an acid rain permit, or an exemption under 40 CFR §§ 72.7 or 72.8 shall be construed as:
- (i) Except as expressly provided in Title IV of the FCAA Amendments, exempting or excluding the owners and operators and, to the extent applicable, the DR of an affected source or affected unit from compliance with any other provision of the FCAA Amendments, including the provisions of Title I of the FCAA Amendments relating to applicable National Ambient Air Quality Standards or State Implementation Plans.
  - (ii) Limiting the number of allowances a unit can hold; provided, that the number of allowances held by the unit shall not affect the source's obligation to comply with any other provisions of the FCAA Amendments.
  - (iii) Requiring a change of any kind in any state law regulating electric utility rates and charges, affecting any state law regarding such state regulation, or limiting such state regulation, including any prudence review requirements under such state law.
  - (iv) Modifying the Federal Power Act or affecting the authority of the Federal Energy Regulatory Commission under the Federal Power Act; or,
  - (v) Interfering with or impairing any program for competitive bidding for power supply in a state in which such program is established.
- I. The number of SO<sub>2</sub> allowances allocated by the EPA in 40 CFR Part 73 is enforceable only by the EPA Administrator.

#### **Clean Air Interstate Rule Permit Requirements**

17. For unit S01 (identified in the Certificate of Representation as unit S01), located at the site identified by ORIS/Facility code 56611, the designated representative and the owner or operator, as applicable, shall comply with the following Clean Air Interstate Rule (CAIR) Permit requirements. Until approval of the Texas CAIR SIP by EPA, the permit holder shall comply with the equivalent requirements of 40 CFR Part 97 in place of the referenced 40 CFR Part 96 requirements in the Texas CAIR permit and 30 TAC Chapter 122 requirements.

A. General Requirements

- (i) Under 30 TAC § 122.420(b) and 40 CFR §§ 96.120(b) and 96.220(b) the CAIR Permit requirements contained here are a separable portion of the Federal Operating Permit (FOP).
- (ii) The owners and operators of the CAIR NO<sub>x</sub> and the CAIR SO<sub>2</sub> source shall operate the source and the unit in compliance with the requirements of this CAIR permit and all other applicable State and federal requirements.
- (iii) The owners and operators of the CAIR NO<sub>x</sub> and the CAIR SO<sub>2</sub> source shall comply with the General Terms and Conditions of the FOP that incorporates this CAIR Permit.

- (iv) The term for the initial CAIR permit shall commence with the issuance of the revision containing the CAIR permit and shall be the remaining term for the FOP that incorporates the CAIR permit. Renewal of the initial CAIR permit shall coincide with the renewal of the FOP that incorporates the CAIR permit and subsequent terms shall be no more than five years from the date of renewal of the FOP and run concurrent with the permit term of the FOP.

B. Monitoring and Reporting Requirements

- (i) The owners and operators, and the CAIR designated representative, of the CAIR NO<sub>x</sub> source and each CAIR NO<sub>x</sub> unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements contained 40 CFR Part 96, Subpart HH.
- (ii) The owners and operators, and the CAIR designated representative, of the CAIR SO<sub>2</sub> source and each CAIR SO<sub>2</sub> unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements contained 40 CFR Part 96, Subpart HHH.
- (iii) The emissions measurements recorded and reported in accordance with 40 CFR Part 96, Subpart HH and any other credible evidence shall be used to determine compliance by the CAIR NO<sub>x</sub> source with the CAIR NO<sub>x</sub> emissions limitation.
- (iv) The emissions measurements recorded and reported in accordance with 40 CFR Part 96, Subpart HHH and any other credible evidence shall be used to determine compliance by the CAIR SO<sub>2</sub> source with the CAIR SO<sub>2</sub> emissions limitation.

C. NO<sub>x</sub> emissions requirements

- (i) As of the allowance transfer deadline for a control period, the owners and operators of the CAIR NO<sub>x</sub> source and each CAIR NO<sub>x</sub> unit at the source shall hold, in the source's compliance account, CAIR NO<sub>x</sub> allowances available for compliance deductions for the control period under 40 CFR § 96.154(a) in an amount not less than the tons of total nitrogen oxides emissions for the control period from all CAIR NO<sub>x</sub> units at the source, as determined in accordance with the requirements of 40 CFR Part 96, Subpart HH.
- (ii) A CAIR NO<sub>x</sub> unit shall be subject to the requirements of paragraph C.(i) of this CAIR Permit starting on the later of January 1, 2009, or the deadline for meeting the unit's monitor certification requirements under 40 CFR § 96.170(b)(1), (2), or (5).
- (iii) A CAIR NO<sub>x</sub> allowance shall not be deducted, for compliance with the requirements of this permit, for a control period in a calendar year before the year for which the CAIR NO<sub>x</sub> allowance was allocated.
- (iv) CAIR NO<sub>x</sub> allowances shall be held in, deducted from or transferred into or among CAIR NO<sub>x</sub> Allowance Tracking System accounts in accordance with the requirements of 40 CFR Part 96, Subpart FF or Subpart GG.

- (v) A CAIR NO<sub>x</sub> allowance is a limited authorization to emit one ton of nitrogen oxides in accordance with the CAIR NO<sub>x</sub> Annual Trading Program. No provision of the CAIR NO<sub>x</sub> Annual Trading Program, the CAIR permit application, the CAIR permit, or an exemption under 40 CFR § 96.105 and no provision of law shall be construed to limit the authority of the State or the United States to terminate or limit such authorization.
- (vi) A CAIR NO<sub>x</sub> allowance does not constitute a property right.
- (vii) Upon recordation by the Administrator under 40 CFR Part 96, Subpart FF or Subpart GG, every allocation, transfer, or deduction of a CAIR NO<sub>x</sub> allowance to or from a CAIR NO<sub>x</sub> unit's compliance account is incorporated automatically in this CAIR permit.

D. NO<sub>x</sub> excess emissions requirement

- (i) If a CAIR NO<sub>x</sub> source emits nitrogen oxides during any control period in excess of the CAIR NO<sub>x</sub> emissions limitation, the owners and operators of the source and each CAIR NO<sub>x</sub> unit at the source shall surrender the CAIR NO<sub>x</sub> allowances required for deduction under 40 CFR § 96.154(d)(1) and pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act or applicable State law.
- (ii) Each ton of such excess emissions and each day of such control period shall constitute a separate violation of 40 CFR Part 96, Subpart AA, the Clean Air Act, and applicable State law.

E. SO<sub>2</sub> emissions requirements

- (i) As of the allowance transfer deadline for a control period, the owners and operators of the CAIR SO<sub>2</sub> source and each CAIR SO<sub>2</sub> unit at the source shall hold, in the source's compliance account, CAIR SO<sub>2</sub> allowances available for compliance deductions for the control period under 40 CFR § 96.254(a) and (b) in an amount not less than the tons of total sulfur dioxides emissions for the control period from all CAIR SO<sub>2</sub> units at the source, as determined in accordance with the requirements of 40 CFR Part 96, Subpart HHH.
- (ii) A CAIR SO<sub>2</sub> unit shall be subject to the requirements of paragraph E.(i) of this CAIR Permit starting on the later of January 1, 2010, or the deadline for meeting the unit's monitor certification requirements under 40 CFR § 96.270(b)(1), (2), or (5).
- (iii) A CAIR SO<sub>2</sub> allowance shall not be deducted, for compliance with the requirements of this permit, for a control period in a calendar year before the year for which the CAIR SO<sub>2</sub> allowance was allocated.
- (iv) CAIR SO<sub>2</sub> allowances shall be held in, deducted from, or transferred into or among CAIR SO<sub>2</sub> Allowance Tracking System accounts in accordance with the requirements of 40 CFR Part 96, Subpart FFF or Subpart GGG.

- (v) A CAIR SO<sub>2</sub> allowance is a limited authorization to emit sulfur dioxide in accordance with the CAIR SO<sub>2</sub> Trading Program. No provision of the CAIR SO<sub>2</sub> Trading Program, the CAIR permit application, the CAIR permit, or an exemption under 40 CFR § 96.205 and no provision of law shall be construed to limit the authority of the State or the United States to terminate or limit such authorization.
- (vi) A CAIR SO<sub>2</sub> allowance does not constitute a property right.
- (vii) Upon recordation by the Administrator under 40 CFR Part 96, Subpart FFF or Subpart GGG, every allocation, transfer, or deduction of a CAIR SO<sub>2</sub> allowance to or from a CAIR SO<sub>2</sub> unit's compliance account is incorporated automatically in this CAIR permit.

F. SO<sub>2</sub> excess emissions requirements

- (i) If a CAIR SO<sub>2</sub> source emits sulfur dioxides during any control period in excess of the CAIR SO<sub>2</sub> emissions limitation, the owners and operators of the source and each CAIR SO<sub>2</sub> unit at the source shall surrender the CAIR SO<sub>2</sub> allowances required for deduction under 40 CFR § 96.254(d)(1) and pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act or applicable State law.
- (ii) Each ton of such excess emissions and each day of such control period shall constitute a separate violation of 40 CFR Part 96, Subpart AAA, the Clean Air Act, and applicable State law.

G. Recordkeeping and Reporting Requirements

- (i) Unless otherwise provided, the owners and operators of the CAIR NO<sub>x</sub> source and each CAIR NO<sub>x</sub> unit at the source and the CAIR SO<sub>2</sub> source and each CAIR SO<sub>2</sub> unit at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the permitting authority or the Administrator.
  - (1) The certificate of representation under 40 CFR §§ 96.113 and 96.213 for the CAIR NO<sub>x</sub> designated representative for the source and each CAIR NO<sub>x</sub> unit and the CAIR SO<sub>2</sub> designated representative for the source and each CAIR SO<sub>2</sub> unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5 year period until such documents are superseded because of the submission of a new certificate of representation under 40 CFR §§ 96.113 and 96.213 changing the CAIR designated representative.
  - (2) All emissions monitoring information, in accordance with 40 CFR Part 96, Subpart HH and Subpart HHH, provided that to the extent that these subparts provide for a 3-year period for recordkeeping, the 3-year period shall apply.

- (3) Copies of all reports, compliance certifications, and other submissions and all records made or required under the CAIR NO<sub>x</sub> Annual Trading Program and CAIR SO<sub>2</sub> Trading Program or relied upon for compliance determinations.
  - (4) Copies of all documents used to complete a CAIR permit application and any other submission under the CAIR NO<sub>x</sub> Annual Trading Program and CAIR SO<sub>2</sub> Trading Program or to demonstrate compliance with the requirements of the CAIR NO<sub>x</sub> Annual Trading Program and CAIR SO<sub>2</sub> Trading Program.
- (ii) The CAIR designated representative of a CAIR NO<sub>x</sub> source and each CAIR NO<sub>x</sub> unit at the source and a CAIR SO<sub>2</sub> source and each CAIR SO<sub>2</sub> unit at the source shall submit the reports required under the CAIR NO<sub>x</sub> Annual Trading Program and the CAIR SO<sub>2</sub> Trading Program including those under 40 CFR Part 96, Subpart HH and Subpart HHH.
- H. The CAIR NO<sub>x</sub> source and each CAIR NO<sub>x</sub> unit shall meet the requirements of the CAIR NO<sub>x</sub> Annual Trading Program contained in 40 CFR Part 96, Subparts AA through II.
- I. The CAIR SO<sub>2</sub> source and each CAIR SO<sub>2</sub> unit shall meet the requirements of the CAIR SO<sub>2</sub> Trading Program contained in 40 CFR Part 96, Subparts AAA through III.
- J. Any provision of the CAIR NO<sub>x</sub> Annual Trading Program and the CAIR SO<sub>2</sub> Trading Program that applies to a CAIR NO<sub>x</sub> source or CAIR SO<sub>2</sub> source or the CAIR designated representative of a CAIR NO<sub>x</sub> source or CAIR SO<sub>2</sub> source shall also apply to the owners and operators of such source and the units at the source.
- K. Any provision of the CAIR NO<sub>x</sub> Annual Trading Program and the CAIR SO<sub>2</sub> Trading Program that applies to a CAIR NO<sub>x</sub> unit or CAIR SO<sub>2</sub> unit or the CAIR designated representative of a CAIR NO<sub>x</sub> unit or CAIR SO<sub>2</sub> unit shall also apply to the owners and operators of such unit.
- L. No provision of the CAIR NO<sub>x</sub> Annual Trading Program, CAIR SO<sub>2</sub> Trading Program, a CAIR permit application, a CAIR permit, or an exemption under 40 CFR §§ 96.105 or 96.205 shall be construed as exempting or excluding the owners and operators, and the CAIR designated representative, of a CAIR NO<sub>x</sub> source or CAIR NO<sub>x</sub> unit or a CAIR SO<sub>2</sub> source or CAIR SO<sub>2</sub> unit from compliance with any other provision of the applicable, approved State implementation plan, a federally enforceable permit, or the Clean Air Act.

## **Attachments**

**Applicable Requirements Summary**

**Additional Monitoring Requirements**

**Permit Shield**

**New Source Review Authorization References**

### **Applicable Requirements Summary**

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Note: A “none” entry may be noted for some emission sources in this permit’s “Applicable Requirements Summary” under the heading of “Monitoring and Testing Requirements” and/or “Recordkeeping Requirements” and/or “Reporting Requirements.” Such a notation indicates that there are no requirements for the indicated emission source as identified under the respective column heading(s) for the stated portion of the regulation when the emission source is operating under the conditions of the specified SOP Index Number. However, other relevant requirements pursuant to 30 TAC Chapter 122 including Recordkeeping Terms and Conditions (30 TAC § 122.144), Reporting Terms and Conditions (30 TAC § 122.145), and Compliance Certification Terms and Conditions (30 TAC § 122.146) continue to apply.

### Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
GRP-COAL1	COAL PREPARATION PLANTS	S03A, S09, S11	60Y	40 CFR Part 60, Subpart Y	No changing attributes.
GRP-COAL2	COAL PREPARATION PLANTS	S03B, S05, S06, S10, S10EC, S10EH, S12	60Y	40 CFR Part 60, Subpart Y	No changing attributes.
S01	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	R1153	30 TAC Chapter 111, Nonagricultural Processes	No changing attributes.
S01	EMISSION POINTS/ STATIONARY VENTS/ PROCESS VENTS	N/A	R1111	30 TAC Chapter 111, Visible Emissions	No changing attributes.
S01	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	R2008	30 TAC Chapter 112, Sulfur Compounds	No changing attributes.
S01	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	60Da-1	40 CFR Part 60, Subpart Da	D-Series Fuel Type #1 = Natural gas.
S01	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	60Da-2	40 CFR Part 60, Subpart Da	D-Series Fuel Type #1 = Natural gas., D-Series Fuel Type #2 = Solid fossil fuel.
S01	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	60Da-3	40 CFR Part 60, Subpart Da	D-Series Fuel Type #1 = Solid fossil fuel.
S01	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	63UUUUU	40 CFR Part 63, Subpart UUUUU	No changing attributes.

### Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
S02	EMISSION POINTS/ STATIONARY VENTS/ PROCESS VENTS	N/A	R1111	30 TAC Chapter 111, Visible Emissions	No changing attributes.
S02	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	60Db	40 CFR Part 60, Subpart Db	No changing attributes.
S13	COAL PREPARATION PLANTS	N/A	60Y	40 CFR Part 60, Subpart Y	No changing attributes.
S18AB	EMISSION POINTS/ STATIONARY VENTS/ PROCESS VENTS	N/A	R1151	30 TAC Chapter 111, Nonagricultural Processes	No changing attributes.
S18AB	EMISSION POINTS/ STATIONARY VENTS/ PROCESS VENTS	N/A	R1111	30 TAC Chapter 111, Visible Emissions	No changing attributes.
S32	EMISSION POINTS/ STATIONARY VENTS/ PROCESS VENTS	N/A	R1111	30 TAC Chapter 111, Visible Emissions	No changing attributes.
S33	SRIC ENGINES	N/A	60III	40 CFR Part 60, Subpart III	No changing attributes.
S33	SRIC ENGINES	N/A	63ZZZZ	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
S34	SRIC ENGINES	N/A	60III	40 CFR Part 60, Subpart III	No changing attributes.
S34	SRIC ENGINES	N/A	63ZZZZ	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
S40	SRIC ENGINES	N/A	60III	40 CFR Part 60, Subpart III	No changing attributes.
S40	SRIC ENGINES	N/A	63ZZZZ	40 CFR Part 63, Subpart ZZZZ	No changing attributes.

### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRP-COAL1	EU	60Y	OPACITY	40 CFR Part 60, Subpart Y	§ 60.254(a) § 60.257(a)	On and after the date on which the performance test is conducted or required to be completed under §60.8, whichever date comes first, an owner or operator shall not cause to be discharged into the atmosphere from any coal processing and conveying equipment, coal storage system, or coal transfer and loading system processing coal constructed, reconstructed, or modified on or before April 28, 2008, gases which exhibit 20 percent opacity or greater.	§ 60.255(a) § 60.257(a) [G]§ 60.257(a)(1) [G]§ 60.257(a)(3) ** See Periodic Monitoring Summary	None	None

### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRP-COAL2	EU	60Y	OPACITY	40 CFR Part 60, Subpart Y	§ 60.254(a) § 60.257(a)	On and after the date on which the performance test is conducted or required to be completed under §60.8, whichever date comes first, an owner or operator shall not cause to be discharged into the atmosphere from any coal processing and conveying equipment, coal storage system, or coal transfer and loading system processing coal constructed, reconstructed, or modified on or before April 28, 2008, gases which exhibit 20 percent opacity or greater.	§ 60.255(a) § 60.257(a) [G]§ 60.257(a)(1) [G]§ 60.257(a)(3) ** See Periodic Monitoring Summary	None	None
S01	EU	R1153	PM	30 TAC Chapter 111, Nonagricultural Processes	§ 111.153(b)	No person may cause, suffer, allow, or permit emissions of particulate matter from any solid fossil fuel-fired steam generator to exceed 0.3 pound of total suspended particulate per million Btu heat input, averaged over a two-hour period.	** See CAM Summary	None	None

### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
S01	EP	R1111	OPACITY	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(B) § 111.111(a)(1)(C) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 20% averaged over a six minute period for any source on which construction was begun after January 31, 1972.	§ 111.111(a)(1)(D) [G] § 111.111(a)(1)(F) ** See CAM Summary	§ 111.111(a)(1)(C) § 111.111(a)(1)(D)	None
S01	EU	R2008	SO <sub>2</sub>	30 TAC Chapter 112, Sulfur Compounds	§ 112.8(a)	Except as in §112.8(b), no person may cause, suffer, allow, or permit emissions of SO <sub>2</sub> from solid fossil fuel-fired steam generators to exceed 3.0 lb/MMBtu heat input averaged over a 3-hour period.	§ 112.2(a) § 112.8(d) ** See CAM Summary	§ 112.2(c)	§ 112.2(b)
S01	EU	60Da-1	NO <sub>x</sub>	40 CFR Part 60, Subpart Da	§ 60.44Da(e)(1) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart Da

### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
S01	EU	60Da-1	PM	40 CFR Part 60, Subpart Da	§ 60.42Da(c)(2) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart Da
S01	EU	60Da-1	OPACITY	40 CFR Part 60, Subpart Da	§ 60.42Da(b) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart Da
S01	EU	60Da-1	SO2	40 CFR Part 60, Subpart Da	§ 60.43Da(i)(1)(i) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart Da

### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
S01	EU	60Da-2	NO <sub>x</sub>	40 CFR Part 60, Subpart Da	§ 60.44Da(e)(1) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart Da
S01	EU	60Da-2	PM	40 CFR Part 60, Subpart Da	§ 60.42Da(c)(2) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart Da
S01	EU	60Da-2	OPACITY	40 CFR Part 60, Subpart Da	§ 60.42Da(b) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart Da

### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
S01	EU	60Da-2	SO <sub>2</sub>	40 CFR Part 60, Subpart Da	§ 60.43Da(i)(1)(i) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart Da
S01	EU	60Da-3	NO <sub>x</sub>	40 CFR Part 60, Subpart Da	§ 60.44Da(e)(1) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart Da
S01	EU	60Da-3	PM	40 CFR Part 60, Subpart Da	§ 60.42Da(c)(2) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart Da

### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
S01	EU	60Da-3	OPACITY	40 CFR Part 60, Subpart Da	§ 60.42Da(b) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart Da
S01	EU	60Da-3	SO2	40 CFR Part 60, Subpart Da	§ 60.43Da(i)(1)(i) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart Da
S01	EU	63UUUUU	112(B) HAPS	40 CFR Part 63, Subpart UUUUU	§ 63.9981 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart UUUUU	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart UUUUU	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart UUUUU	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart UUUUU	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart UUUUU

### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
S02	EP	R1111	OPACITY	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(C) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 15% averaged over a six minute period for any source with a total flow rate of at least 100,000 acfm unless a CEMS is installed.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None
S02	EU	60Db	SO <sub>2</sub>	40 CFR Part 60, Subpart Db	§ 60.42b(k)(2)	Units firing only very low sulfur oil and/or a mixture of gaseous fuels with a potential SO <sub>2</sub> emission rate of 140 ng/J (0.32 lb/MMBtu) heat input or less are exempt from the SO <sub>2</sub> emissions limit in §60.42b(k)(1).	§ 60.47b(f)	§ 60.45b(k) [G]§ 60.49b(d) § 60.49b(o) § 60.49b(r) § 60.49b(r)(1)	§ 60.49b(a) § 60.49b(a)(1) § 60.49b(r) § 60.49b(r)(1)
S02	EU	60Db	PM	40 CFR Part 60, Subpart Db	§ 60.40b(a)	This subpart applies to each steam generating unit constructed, modified, or reconstructed after 6/19/84, and that has a heat input capacity from fuels combusted in the unit > 29 MW (100 MMBtu/hr).	None	[G]§ 60.49b(d) § 60.49b(o)	§ 60.49b(a) § 60.49b(a)(1) § 60.49b(a)(3)

### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
S02	EU	60Db	OPACITY	40 CFR Part 60, Subpart Db	§ 60.40b(a)	This subpart applies to each steam generating unit constructed, modified, or reconstructed after 6/19/84, and that has a heat input capacity from fuels combusted in the unit > 29 MW (100 MMBtu/hr).	None	[G]§ 60.49b(d) § 60.49b(o)	§ 60.49b(a) § 60.49b(a)(1) § 60.49b(a)(3)
S02	EU	60Db	NO <sub>x</sub>	40 CFR Part 60, Subpart Db	§ 60.44b(l)(1)	If the affected facility combusts coal, oil, natural gas, a mixture of these fuels, or a mixture of these fuels with any other fuels: A limit of 86 ng/J (0.20 lb/MMBtu) heat input unless the affected facility has an annual capacity factor for coal, oil, and natural gas of 10 percent (0.10) or less and is subject to a federally enforceable requirement that limits operation of the facility to an annual capacity factor of 10 percent (0.10) or less for coal, oil, and natural gas.	None	[G]§ 60.49b(d) § 60.49b(o)	§ 60.49b(a) § 60.49b(a)(1) § 60.49b(a)(3)

### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
S13	EU	60Y	OPACITY	40 CFR Part 60, Subpart Y	§ 60.254(a) § 60.257(a)	On and after the date on which the performance test is conducted or required to be completed under §60.8, whichever date comes first, an owner or operator shall not cause to be discharged into the atmosphere from any coal processing and conveying equipment, coal storage system, or coal transfer and loading system processing coal constructed, reconstructed, or modified on or before April 28, 2008, gases which exhibit 20 percent opacity or greater.	§ 60.255(a) § 60.257(a) [G]§ 60.257(a)(1) [G]§ 60.257(a)(3)	None	None
S18AB	EP	R1151	PM	30 TAC Chapter 111, Nonagricultural Processes	§ 111.151(a) § 111.151(b) § 111.151(c)	No person may cause, suffer, allow, or permit emissions of particulate matter from any source to exceed the allowable rates specified in Table 1 as follows, except as provided by §111.153 of this title (relating to Emissions Limits for Steam Generators).	** See CAM Summary	None	None

### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
S18AB	EP	R1111	OPACITY	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(B) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 20% averaged over a six minute period for any source on which construction was begun after January 31, 1972.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None
S32	EP	R1111	OPACITY	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(C) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 15% averaged over a six minute period for any source with a total flow rate of at least 100,000 acfm unless a CEMS is installed.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None
S33	EU	60III	CO	40 CFR Part 60, Subpart III	§ 60.4205(b) § 60.4202(a)(2) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) § 60.4211(f) § 60.4211(f)(1) § 60.4211(f)(2) § 60.4211(f)(2)(i) § 60.4211(f)(3) § 60.4218 § 89.112(a)	Owners and operators of emergency stationary CI ICE, that are not fire pump engines, with a maximum engine power greater than or equal to 130 KW and less than or equal to 2237 KW and a displacement of less than 10 liters per cylinder and is a 2007 model year and later must comply with a CO emission limit of 3.5 g/KW-hr, as stated in 40 CFR 60.4202(a)(2) and 40 CFR 89.112(a).	None	None	None

### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
S33	EU	60III	NMHC and NO <sub>x</sub>	40 CFR Part 60, Subpart III	§ 60.4205(b) § 60.4202(a)(2) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) § 60.4211(f) § 60.4211(f)(1) § 60.4211(f)(2) § 60.4211(f)(2)(i) § 60.4211(f)(3) § 60.4218 § 89.112(a)	Owners and operators of emergency stationary CI ICE, that are not fire pump engines, with a maximum engine power greater than 560 KW and less than or equal to 2237 KW and a displacement of less than 10 liters per cylinder and is a 2007 model year and later must comply with an NMHC+NO <sub>x</sub> emission limit of 6.4 g/KW-hr, as stated in 40 CFR 60.4202(a)(2) and 40 CFR 89.112(a).	None	None	None
S33	EU	60III	PM	40 CFR Part 60, Subpart III	§ 60.4205(b) § 60.4202(a)(2) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) § 60.4211(f) § 60.4211(f)(1) § 60.4211(f)(2) § 60.4211(f)(2)(i) § 60.4211(f)(3) § 60.4218 § 89.112(a)	Owners and operators of emergency stationary CI ICE, that are not fire pump engines, with a maximum engine power greater than or equal to 130 KW and less than or equal to 2237 KW and a displacement of less than 10 liters per cylinder and is a 2007 model year and later must comply with a PM emission limit of 0.20 g/KW-hr, as stated in 40 CFR 60.4202(a)(2) and 40 CFR 89.112(a).	None	None	None

### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
S33	EU	63ZZZZ	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6590(c)	Stationary RICE subject to Regulations under 40 CFR Part 60. An affected source that meets any of the criteria in paragraphs (c)(1) through (7) of this section must meet the requirements of this part by meeting the requirements of 40 CFR part 60 subpart IIII, for compression ignition engines or 40 CFR part 60 subpart JJJJ, for spark ignition engines as applicable. No further requirements apply for such engines under this part.	None	None	None
S34	EU	60IIII	CO	40 CFR Part 60, Subpart IIII	§ 60.4205(c)- Table 4 § 60.4206 § 60.4207(b) § 60.4211(b) § 60.4211(b)(1) § 60.4211(f) § 60.4211(f)(1) § 60.4211(f)(2) § 60.4211(f)(2)(i) § 60.4211(f)(3) § 60.4218	Owners and operators of emergency stationary fire pump CI ICE with a maximum engine power greater than or equal to 130 KW and less than or equal to 560 KW and a displacement of less than 30 liters per cylinder and is a 2008 model year or earlier must comply with a CO emission limit of 3.5 g/KW-hr, as listed in Table 4 to this subpart.	§ 60.4209(a)	§ 60.4214(b)	None

### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
S34	EU	60III	NMHC and NO <sub>x</sub>	40 CFR Part 60, Subpart III	§ 60.4205(c)-Table 4 § 60.4206 § 60.4207(b) § 60.4211(b) § 60.4211(b)(1) § 60.4211(f) § 60.4211(f)(1) § 60.4211(f)(2) § 60.4211(f)(2)(i) § 60.4211(f)(3) § 60.4218	Owners and operators of emergency stationary fire pump CI ICE with a maximum engine power greater than or equal to 130 KW and less than or equal to 560 KW and a displacement of less than 30 liters per cylinder and is a 2008 model year or earlier must comply with an NMHC+NO <sub>x</sub> emission limit of 10.5 g/KW-hr, as listed in Table 4 to this subpart.	§ 60.4209(a)	§ 60.4214(b)	None
S34	EU	60III	PM	40 CFR Part 60, Subpart III	§ 60.4205(c)-Table 4 § 60.4206 § 60.4207(b) § 60.4211(b) § 60.4211(b)(1) § 60.4211(f) § 60.4211(f)(1) § 60.4211(f)(2) § 60.4211(f)(2)(i) § 60.4211(f)(3) § 60.4218	Owners and operators of emergency stationary fire pump CI ICE with a maximum engine power greater than or equal to 130 KW and less than or equal to 560 KW and a displacement of less than 30 liters per cylinder and is a 2008 model year or earlier must comply with a PM emission limit of 0.54 g/KW-hr, as listed in Table 4 to this subpart.	§ 60.4209(a)	§ 60.4214(b)	None

### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
S34	EU	63ZZZZ	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6590(c)	Stationary RICE subject to Regulations under 40 CFR Part 60. An affected source that meets any of the criteria in paragraphs (c)(1) through (7) of this section must meet the requirements of this part by meeting the requirements of 40 CFR part 60 subpart IIII, for compression ignition engines or 40 CFR part 60 subpart JJJJ, for spark ignition engines as applicable. No further requirements apply for such engines under this part.	None	None	None
S40	EU	60IIII	CO	40 CFR Part 60, Subpart IIII	§ 60.4205(c)-Table 4 § 60.4206 § 60.4207(b) § 60.4211(b) § 60.4211(b)(1) [G]§ 60.4211(f) § 60.4218	Owners and operators of emergency stationary fire pump CI ICE with a maximum engine power greater than or equal to 75 KW and less than 130 KW and a displacement of less than 30 liters per cylinder and is a 2009 model year or earlier must comply with a CO emission limit of 5.0 g/KW-hr, as listed in Table 4 to this subpart.	§ 60.4209(a)	§ 60.4214(b)	[G]§ 60.4214(d)

### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
S40	EU	60III	NMHC and NO <sub>x</sub>	40 CFR Part 60, Subpart III	§ 60.4205(c)-Table 4 § 60.4206 § 60.4207(b) § 60.4211(b) § 60.4211(b)(1) [G]§ 60.4211(f) § 60.4218	Owners and operators of emergency stationary fire pump CI ICE with a maximum engine power greater than or equal to 75 KW and less than 130 KW and a displacement of less than 30 liters per cylinder and is a 2009 model year or earlier must comply with an NMHC+NO <sub>x</sub> emission limit of 10.5 g/KW-hr, as listed in Table 4 to this subpart.	§ 60.4209(a)	§ 60.4214(b)	[G]§ 60.4214(d)
S40	EU	60III	PM	40 CFR Part 60, Subpart III	§ 60.4205(c)-Table 4 § 60.4206 § 60.4207(b) § 60.4211(b) § 60.4211(b)(1) [G]§ 60.4211(f) § 60.4218	Owners and operators of emergency stationary fire pump CI ICE with a maximum engine power greater than or equal to 75 KW and less than 130 KW and a displacement of less than 30 liters per cylinder and is a 2009 model year or earlier must comply with a PM emission limit of 0.80 g/KW-hr, as listed in Table 4 to this subpart.	§ 60.4209(a)	§ 60.4214(b)	[G]§ 60.4214(d)

### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
S40	EU	63ZZZZ	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6590(c)	Stationary RICE subject to Regulations under 40 CFR Part 60. An affected source that meets any of the criteria in paragraphs (c)(1) through (7) of this section must meet the requirements of this part by meeting the requirements of 40 CFR part 60 subpart IIII, for compression ignition engines or 40 CFR part 60 subpart JJJJ, for spark ignition engines as applicable. No further requirements apply for such engines under this part.	None	None	None

**Additional Monitoring Requirements**

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### CAM Summary

Unit/Group/Process Information	
ID No.: S01	
Control Device ID No.: F01	Control Device Type: Fabric Filter
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111
Pollutant: OPACITY	Main Standard: § 111.111(a)(1)(B)
Monitoring Information	
Indicator: Opacity	
Minimum Frequency: six times per minute	
Averaging Period: six-minutes	
Deviation Limit: Greater than 20% opacity over a 6-minute average, except during periods defined in 30 TAC § 111.111(a)(1)(E)	
<p>CAM Text: Measure and record the opacity of the exhaust using a COMS. The COMS shall be operated in accordance with 40 CFR § 60.13. Any monitoring data above the maximum limit shall be considered and reported as a deviation.</p> <p>Sampling ports for the COMS will be installed at locations in accordance with EPA criteria and will operate consistent with manufacturer specifications.</p> <p>All manufacturer recommendations for COMS instrument maintenance, calibration and verification procedures shall be followed.</p>	

### CAM Summary

Unit/Group/Process Information	
ID No.: S01	
Control Device ID No.: F01	Control Device Type: Fabric Filter
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Nonagricultural Processes	SOP Index No.: R1153
Pollutant: PM	Main Standard: § 111.153(b)
Monitoring Information	
Indicator: Opacity	
Minimum Frequency: Six times per min.	
Averaging Period: Two-hour average	
Deviation Limit: Greater than 20% opacity averaged over a two-hour period, except during periods defined in 30 TAC § 111.111(a)(1)(E)	
<p>CAM Text: Measure and record the opacity of the exhaust using a COMS. The COMS shall be operated in accordance with 40 CFR § 60.13. Any monitoring data above the maximum limit shall be considered and reported as a deviation.</p> <p>Sampling ports for the COMS will be installed at locations in accordance with EPA criteria and will operate consistent with manufacturer specifications.</p> <p>All manufacturer recommendations for COMS instrument maintenance, calibration and verification procedures shall be followed.</p>	

### CAM Summary

Unit/Group/Process Information	
ID No.: S01	
Control Device ID No.: F01	Control Device Type: Fabric Filter
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Nonagricultural Processes	SOP Index No.: R1153
Pollutant: PM	Main Standard: § 111.153(b)
Monitoring Information	
Indicator: TSP emissions, lb/MMBtu	
Minimum Frequency: Annually, or every three years, as specified in NSR Permit Nos. 70861/PSDTX1039	
Averaging Period: Based on the average of three stack sampling runs	
Deviation Limit: 0.3 pounds of total suspended particulate matter per million British thermal units (lb TSP/MMBtu).	
<p>CAM Text: Stack sampling shall be performed during periods of normal operation of the boiler. Sampling ports will be installed at locations in accordance with 40 CFR Part 60, Appendix A. Sampling shall be conducted in accordance with the appropriate procedures of the TCEQ Sampling Procedures Manual and EPA Methods in 40 CFR Part 60, Appendix A. Any deviations from those procedures must be approved by the Executive Director of the TCEQ prior to sampling.</p>	

## CAM Summary

Unit/Group/Process Information	
ID No.: S01	
Control Device ID No.: SC1	Control Device Type: SO2 Scrubber
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 112, Sulfur Compounds	SOP Index No.: R2008
Pollutant: SO <sub>2</sub>	Main Standard: § 112.8(a)
Monitoring Information	
Indicator: SO <sub>2</sub> Concentration	
Minimum Frequency: four times per hour	
Averaging Period: three hours	
Deviation Limit: Greater than 3.0 lb/MMBtu sulfur dioxide concentration averaged over 3 hours	
<p>CAM Text: Measure and record the sulfur dioxide concentration of the exhaust using a CEMS. The CEMS shall be operated in accordance with 40 CFR § 60.13. Any monitoring data above the maximum limit shall be considered and reported as a deviation.</p> <p>Sampling ports for the CEMS will be installed at locations in accordance with EPA criteria and will operate consistent with manufacturer specifications.</p> <p>All manufacturer recommendations for CEMS instrument maintenance, calibration and verification procedures shall be followed.</p>	

### CAM Summary

Unit/Group/Process Information	
ID No.: S18AB	
Control Device ID No.: F18	Control Device Type: Fabric Filter
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Nonagricultural Processes	SOP Index No.: R1151
Pollutant: PM	Main Standard: § 111.151(a)
Monitoring Information	
Indicator: Pressure drop	
Minimum Frequency: Daily	
Averaging Period: N/A	
Deviation Limit: A pressure drop less than 0 inches of water or higher than 6 inches of water	
<p>CAM Text: Each monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications, other written procedures that provide an adequate assurance that the device is calibrated accurately, or at least annually, whichever is more frequent, and shall be accurate to within one of the following: <math>\pm 0.5</math> inches water gauge pressure (<math>\pm 125</math> pascals); or <math>\pm 0.5\%</math> of span. Any pressure drop monitoring data below the minimum limit or above the maximum limit shall be considered and reported as a deviation.</p>	

### Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRP-COAL1	
Control Device ID No.: F03A	Control Device Type: Fabric Filter
Control Device ID No.: F09	Control Device Type: Fabric Filter
Control Device ID No.: F11	Control Device Type: Fabric Filter
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart Y	SOP Index No.: 60Y
Pollutant: OPACITY	Main Standard: § 60.254(a)
Monitoring Information	
Indicator: Opacity	
Minimum Frequency: once per month	
Averaging Period: six-minutes	
Deviation Limit: Maximum opacity of 20%	
<p>Periodic Monitoring Text: Visible emissions observations shall be made in accordance with the requirements of 40 CFR § 64.7(c). If visible emissions are not present during the observation, the RO may certify this source is in compliance. If visible emissions are present, opacity shall be monitored and recorded by a certified observer, for at least one, six-minute period in accordance with 40 CFR Part 60 Appendix A, Test Method 9. Any opacity reading that is above 20 percent shall be reported as a deviation.</p>	

### Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRP-COAL2	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart Y	SOP Index No.: 60Y
Pollutant: OPACITY	Main Standard: § 60.254(a)
Monitoring Information	
Indicator: Opacity	
Minimum Frequency: once per month	
Averaging Period: six-minutes	
Deviation Limit: Maximum opacity of 20%	
<p>Periodic Monitoring Text: Visible emissions observations shall be made in accordance with the requirements of 40 CFR § 64.7(c). If visible emissions are not present during the observation, the RO may certify this source is in compliance. If visible emissions are present, opacity shall be monitored and recorded by a certified observer, for at least one, six-minute period in accordance with 40 CFR Part 60 Appendix A, Test Method 9. Any opacity reading that is above 20 percent shall be reported as a deviation.</p>	

### Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: S02	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111
Pollutant: OPACITY	Main Standard: § 111.111(a)(1)(C)
Monitoring Information	
Indicator: Fuel Type	
Minimum Frequency: Annually or at any time an alternate fuel is used	
Averaging Period: n/a	
<p>Deviation Limit: Firing an alternate fuel for a period greater than or equal to 24 consecutive hours without conducting an observation, or if visible emissions are present and a Test Method 9 is not performed, or if opacity is greater than 15% for firing any fuel.</p> <p>Periodic Monitoring Text: Record the type of fuel used by the unit. If an alternate fuel is fired, either alone or in combination with the specified gas, for a period greater than or equal to 24 consecutive hours it shall be considered and reported as a deviation or the permit holder shall conduct an observation of the stationary vent for each such period to determine if visible emissions are observed. Any time an alternate fuel is fired for a period of greater than 7 consecutive days then visible emissions observations will be conducted no less than once per week. Documentation of all observations shall be maintained. If visible emissions are present during the firing of an alternate fuel, the permit holder shall either list this occurrence as a deviation or the permit holder may determine the opacity consistent with Test Method 9. Any opacity readings that are above the opacity limit from the underlying applicable requirement shall be reported as a deviation.</p>	

### Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: S18AB	
Control Device ID No.: F18	Control Device Type: Fabric Filter
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111
Pollutant: OPACITY	Main Standard: § 111.111(a)(1)(B)
Monitoring Information	
Indicator: Pressure drop / Opacity	
Minimum Frequency: Daily (pressure drop); Weekly (opacity)	
Averaging Period: N/A	
Deviation Limit: A pressure drop less than 0 inches of water or higher than 6 inches of water. In the event that an opacity observation is used in lieu of a pressure drop reading, the maximum opacity limit is 20%.	
Periodic Monitoring Text: Each monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications, other written procedures that provide an adequate assurance that the device is calibrated accurately, or at least annually, whichever is more frequent, and shall be accurate to within one of the following: $\pm 0.5$ inches water gauge pressure ( $\pm 125$ pascals); or $\pm 0.5\%$ of span. Any pressure drop monitoring data below the minimum limit or above the maximum limit shall be considered and reported as a deviation only if the opacity is equal to or greater than the permitted limit as determined by a certified Method 9 or Method 22.	

### Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: S32	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111
Pollutant: OPACITY	Main Standard: § 111.111(a)(1)(C)
Monitoring Information	
Indicator: Opacity	
Minimum Frequency: once per month	
Averaging Period: six- minutes	
Deviation Limit: Occurrence of visible emissions having an opacity that is greater than 15% shall be reported as a deviation, the opacity limit being specified in 30 TAC 111.111(a)(1)(C) except during periods defined in 30 TAC 111.111(a)(1)(E).	
Periodic Monitoring Text: Opacity shall be monitored, by a certified observer, for at least one, six-minute period in accordance with Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60), Appendix A, Test Method 9. Any opacity readings above the deviation limit shall be reported as a deviation.	

**Permit Shield**

**Permit Shield ..... 53**

### Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
BLASTING	N/A	40 CFR Part 63, Subpart XXXXXX	Site is not an area source that is primarily engaged in the operations in one of the nine source categories listed in paragraphs (a)(1) through (9) of 40 CFR §63.11514.
GRP-AUXSILO	S42, S44, S58, S74AB	40 CFR Part 60, Subpart OOO	These operations are not a non-metallic mineral processing plant.
GRP-COAL1	S03A, S09, S11	40 CFR Part 60, Subpart OOO	These operations are not a non-metallic mineral processing plant.
GRP-COAL2	S03B, S05, S06, S10, S10EC, S10EH, S12	40 CFR Part 60, Subpart OOO	These operations are not a non-metallic mineral processing plant.
GRP-DIESELTK	S37, S38, S72, S73	30 TAC Chapter 115, Loading and Unloading of VOC	Non-gasoline VOC loading/unloading operations in McLennan County are exempt from the requirements of this Division.
GRP-DIESELTK	S37, S38, S72, S73	40 CFR Part 60, Subpart Kb	The storage capacity is less than 75 m <sup>3</sup> (19,800 gal).
GRP-HEATER	S95, S96	30 TAC Chapter 117, Subchapter E, Division 1	The heaters are not electric power boilers or gas turbines.
GRP-HEATER	S95, S96	40 CFR Part 60, Subpart Db	The heaters each have a maximum design heat input capacity less than 29 MW (100 MMBTU/hr).
GRP-HEATER	S95, S96	40 CFR Part 60, Subpart Dc	The heaters each have a maximum design heat input capacity less than 2.9 MW (10 MMBTU/hr).

### Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
GRP-HEATER	S95, S96	40 CFR Part 63, Subpart JJJJJJ	Gas-fired boilers, as defined in the subpart, are not subject to this Rule.
GRP-LIME	S29, S31, S35	40 CFR Part 60, Subpart OOO	These operations are not a non-metallic mineral processing plant.
GRP-PARTWSH	S45, S46, S47, S48	40 CFR Part 63, Subpart T	The parts washer solvent contains less than 5% hazardous air pollutants.
GRP-WTTANK	S61, S62, S63, S64, S65, S66, S67, S68, S69	30 TAC Chapter 115, Loading and Unloading of VOC	Non-gasoline VOC loading/unloading operations in McLennan County are exempt from the requirements of this Division.
GRP-WTTANK	S61, S62, S63, S64, S65, S66, S67, S68, S69	40 CFR Part 60, Subpart Kb	The storage capacity is less than 75 m <sup>3</sup> (19,800 gal).
OIL-LOAD	N/A	30 TAC Chapter 115, Loading and Unloading of VOC	Non-gasoline VOC loading/unloading operations in McLennan County are exempt from the requirements of this Division.
PAINTING	N/A	40 CFR Part 63, Subpart HHHHHH	The operation does not include paint stripping using methylene chloride for the removal of dried paint and only includes spray application of coatings for facility maintenance, as defined in §63.11180.
PAINTING	N/A	40 CFR Part 63, Subpart MMMM	Surface coating associated with facility maintenance operations are not applicable to the Rule.
S01	N/A	30 TAC Chapter 117, Subchapter E, Division 1	The boiler was placed into service after December 31, 1995.

### Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
S01	N/A	40 CFR Part 60, Subpart Db	The PC boiler is meeting the requirements of NSPS Subpart Da.
S01	N/A	40 CFR Part 60, Subpart Dc	The PC boiler has a maximum design heat input capacity greater than 29 MW (100 MMBtu/Hr).
S01	N/A	40 CFR Part 63, Subpart DDDDD	The EGU is not subject to this Rule because it is subject to 40 CFR Part 63, Subpart UUUUU.
S01	N/A	40 CFR Part 63, Subpart JJJJJ	This boiler is not an industrial, commercial, or institutional boiler.
S02	N/A	30 TAC Chapter 117, Subchapter E, Division 1	The boiler was placed into service after December 31, 1995.
S02	N/A	40 CFR Part 60, Subpart Da	The auxiliary boiler is not an electric utility steam generating unit. It is meeting the requirements of NSPS Subpart Db.
S02	N/A	40 CFR Part 60, Subpart Dc	The auxiliary boiler has a maximum design heat input capacity greater than 29 MW (100 MMBtu/hr).
S02	N/A	40 CFR Part 63, Subpart JJJJJ	Gas-fired boilers are not subject to the Rule.
S07	N/A	40 CFR Part 60, Subpart Y	Open coal piles that commenced construction prior to May 27, 2009 are not an affected facility.

### Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
S08	N/A	40 CFR Part 60, Subpart Y	Open coal piles that commenced construction prior to May 27, 2009 are not an affected facility.
S14	N/A	40 CFR Part 60, Subpart Y	Open coal piles that commenced construction prior to May 27, 2009 are not an affected facility.
S32	N/A	40 CFR Part 63, Subpart Q	The cooling tower is not operated with chromium-based water treatment chemicals.
S33	N/A	30 TAC Chapter 117, Subchapter E, Division 1	The unit is not an electric power boiler or gas turbine.
S34	N/A	30 TAC Chapter 117, Subchapter E, Division 1	The unit is not an electric power boiler or gas turbine.
S40	N/A	30 TAC Chapter 117, Subchapter E, Division 1	The unit is not an electric power boiler or gas turbine.
S41	N/A	30 TAC Chapter 115, Loading and Unloading of VOC	Non-gasoline VOC loading/unloading operations in McLennan County are exempt from the requirements of this Division.
S41	N/A	40 CFR Part 60, Subpart Kb	The storage capacity is less than 75 m <sup>3</sup> (19,800 gal).
S60	N/A	40 CFR Part 60, Subpart Kb	The storage capacity is less than 75 m <sup>3</sup> (19,800 gal).

### Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
S71	N/A	40 CFR Part 60, Subpart Kb	The storage capacity is less than 75 m <sup>3</sup> (19,800 gal).

**New Source Review Authorization References**

<b>New Source Review Authorization References.....</b>	<b>59</b>
<b>New Source Review Authorization References by Emission Unit .....</b>	<b>60</b>

### New Source Review Authorization References

The New Source Review authorizations listed in the table below are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

<b>Prevention of Significant Deterioration (PSD) Permits</b>	
PSD Permit No.: PSDTX1039	Issuance Date: 05/26/2016
<b>Title 30 TAC Chapter 116 Permits, Special Permits, and Other Authorizations (Other Than Permits By Rule, PSD Permits, or NA Permits) for the Application Area.</b>	
Authorization No.: 70861	Issuance Date: 05/26/2016
Authorization No.: 95851	Issuance Date: 06/08/2011
<b>Permits By Rule (30 TAC Chapter 106) for the Application Area</b>	
Number: 106.102	Version No./Date: 09/04/2000
Number: 106.144	Version No./Date: 09/04/2000
Number: 106.183	Version No./Date: 09/04/2000
Number: 106.227	Version No./Date: 09/04/2000
Number: 106.261	Version No./Date: 11/01/2003
Number: 106.262	Version No./Date: 11/01/2003
Number: 106.263	Version No./Date: 11/01/2001
Number: 106.265	Version No./Date: 09/04/2000
Number: 106.371	Version No./Date: 09/04/2000
Number: 106.454	Version No./Date: 11/01/2001
Number: 106.472	Version No./Date: 09/04/2000
Number: 106.473	Version No./Date: 09/04/2000
Number: 106.511	Version No./Date: 09/04/2000

### New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
BLASTING	SITEWIDE DRY ABRASIVE BLASTING	106.263/11/01/2001
OIL-LOAD	USED OIL LOADING	106.472/09/04/2000
PAINTING	SITEWIDE MAINTENANCE PAINTING	106.263/11/01/2001
S01	PULVERIZED COAL BOILER	70861, PSDTX1039
S02	NATURAL GAS-FIRED AUXILIARY BOILER	70861, 95851, PSDTX1039
S03A	RAILCAR COAL UNLOADING BAGHOUSE VENT	70861, PSDTX1039
S03B	RAILCAR COAL UNLOADING COAL DUST FUGITIVES	70861, PSDTX1039
S05	STACKOUT CONVEYOR #1 COAL DUST FUGITIVES	70861, PSDTX1039
S06	STACKOUT CONVEYOR #2 COAL DUST FUGITIVES	70861, PSDTX1039
S07	ACTIVE COAL PILE #1 COAL DUST FUGITIVES	70861, PSDTX1039
S08	ACTIVE COAL PILE #2 COAL DUST FUGITIVES	70861, PSDTX1039
S09	ACTIVE COAL PILE RECLAIM BAGHOUSE VENT	70861, PSDTX1039
S10EC	EMERGENCY RECLAIM CONVEYOR	106.262/11/01/2003
S10EH	EMERGENCY RECLAIM HOPPER	106.262/11/01/2003
S10	RECLAIM CONVEYOR #1 COAL DUST FUGITIVES	70861, PSDTX1039
S11	COAL TRANSFER TOWER BAGHOUSE VENT	70861, PSDTX1039
S12	RECLAIM CONVEYOR #2 COAL DUST FUGITIVES	70861, 106.262/11/01/2003, PSDTX1039
S13	TRIPPER DECK SILO BAY ENCLOSED CONVEYOR BAGHOUSE VENT	70861, PSDTX1039

### New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
S14	INACTIVE COAL PILE COAL DUST FUGITIVES	70861, PSDTX1039
S18AB	FLY ASH SILO CONVEYOR LOADING VENT	70861, PSDTX1039
S29	LIME SILO 1	70861, PSDTX1039
S31	LIME SILO 2	106.144/09/04/2000
S32	COOLING TOWER	70861, PSDTX1039
S33	DIESEL-FIRED EMERGENCY GENERATOR	70861, PSDTX1039
S34	DIESEL-FIRED EMERGENCY FIRE WATER PUMP	70861, PSDTX1039
S35	LIME SILO 3	106.144/09/04/2000
S37	DIESEL FUEL STORAGE TANK (EMERGENCY GENERATOR)	70861, PSDTX1039
S38	DIESEL FUEL STORAGE TANK (FIRE WATER PUMP)	70861, PSDTX1039
S40	FIREWATER BOOSTER PUMP ENGINE	106.511/09/04/2000
S41	DIESEL FUEL STORAGE TANK (FIRE WATER BOOSTER PUMP)	106.473/09/04/2000
S42	ACTIVATED CARBON SILO	106.144/09/04/2000
S44	SODA ASH SILO	106.144/09/04/2000
S45	PARTS WASHER 1	106.454/11/01/2001
S46	PARTS WASHER 2	106.454/11/01/2001
S47	PARTS WASHER 3	106.454/11/01/2001
S48	PARTS WASHER 4	106.454/11/01/2001

### New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
S58	RECYCLED ASH SILO	106.261/11/01/2003, 106.262/11/01/2003
S60	LUBE OIL STORAGE TANK	106.472/09/04/2000
S61	SULFURIC ACID TANK - CONDENSATE POLISHING	106.472/09/04/2000
S62	SODIUM HYPOCHLORITE TANK - COOLING WATER TREATMENT	106.472/09/04/2000
S63	SODIUM BROMIDE TANK	106.472/09/04/2000
S64	CAUSTIC TANK - CONDENSATE POLISHING	106.472/09/04/2000
S65	SULFURIC ACID TANK - COOLING WATER TREATMENT	106.472/09/04/2000
S66	SULFURIC ACID TANK - PROCESS WATER TREATMENT	106.472/09/04/2000
S67	SODIUM HYPOCHLORITE TANK - PROCESS WATER TREATMENT	106.472/09/04/2000
S68	FERRIC CHLORIDE TANK - PROCESS WATER TREATMENT	106.472/09/04/2000
S69	CAUSTIC TANK - PROCESS WATER TREATMENT	106.472/09/04/2000
S71	HYDRAULIC FLUID TANK	106.472/09/04/2000
S72	DIESEL FUEL STORAGE TANK 1	106.472/09/04/2000
S73	DIESEL FUEL STORAGE TANK 2	106.472/09/04/2000
S74AB	RECYCLED ASH SILO VENTS	106.261/11/01/2003, 106.262/11/01/2003
S95	P1 HEATER	106.183/09/04/2000
S96	P2 HEATER	106.183/09/04/2000

## Appendix A

Acronym List .....	64
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## Acronym List

The following abbreviations or acronyms may be used in this permit:

ACFM .....	actual cubic feet per minute
AMOC .....	alternate means of control
ARP .....	Acid Rain Program
ASTM .....	American Society of Testing and Materials
B/PA .....	Beaumont/Port Arthur (nonattainment area)
CAM .....	Compliance Assurance Monitoring
CD .....	control device
COMS .....	continuous opacity monitoring system
CVS .....	closed-vent system
D/FW .....	Dallas/Fort Worth (nonattainment area)
DR .....	Designated Representative
EIP .....	El Paso (nonattainment area)
EP .....	emission point
EPA .....	U.S. Environmental Protection Agency
EU .....	emission unit
FCAA Amendments .....	Federal Clean Air Act Amendments
FOP .....	federal operating permit
GF .....	grandfathered
gr/100 scf .....	grains per 100 standard cubic feet
HAP .....	hazardous air pollutant
H/G/B .....	Houston/Galveston/Brazoria (nonattainment area)
H <sub>2</sub> S .....	hydrogen sulfide
ID No. ....	identification number
lb/hr .....	pound(s) per hour
MMBtu/hr .....	Million British thermal units per hour
MRRT .....	monitoring, recordkeeping, reporting, and testing
NA .....	nonattainment
N/A .....	not applicable
NADB .....	National Allowance Data Base
NO <sub>x</sub> .....	nitrogen oxides
NSPS .....	New Source Performance Standard (40 CFR Part 60)
NSR .....	New Source Review
ORIS .....	Office of Regulatory Information Systems
Pb .....	lead
PBR .....	Permit By Rule
PM .....	particulate matter
ppmv .....	parts per million by volume
PSD .....	prevention of significant deterioration
RO .....	Responsible Official
SO <sub>2</sub> .....	sulfur dioxide
TCEQ .....	Texas Commission on Environmental Quality
TSP .....	total suspended particulate
TVP .....	true vapor pressure
U.S.C. ....	United States Code
VOC .....	volatile organic compound

## **Appendix B**

<b>Major NSR Summary Table .....</b>	<b>66</b>
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**Major NSR Summary Table**

Permit Number: 70861 and PSDTX1039				Issuance Date: 05/26/2016			
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Spec. Cond.	Spec. Cond.	Spec. Cond.
S01	Pulverized Coal (PC) Boiler (8,185 MMBtu/hr)	NO <sub>x</sub> (30-day)	573	1,793	3, 12, 30, 31, 32	3, 12, 30, 31, 32, 46, 47	3, 30, 31, 32, 48
		NO <sub>x</sub> (1-hr)	1,637	--	3, 12, 30, 31, 32	3, 12, 30, 31, 32, 46, 47	3, 30, 31, 32, 48
		SO <sub>2</sub> (30-day)	982	3,585	3, 7, 12, 30, 31, 32, 38	3, 7, 12, 30, 31, 32, 38, 46, 47	3, 7, 30, 31, 32, 48
		SO <sub>2</sub> (1-hr)	2,456	--	3, 7, 12, 30, 31, 32, 38	3, 7, 12, 30, 31, 32, 38, 46, 47	3, 7, 30, 31, 32, 48
		PM/PM <sub>10</sub> (filterable)	123	538	3, 30, 31	3, 30, 31, 46, 47	3, 30, 31
		PM/PM <sub>10</sub> (total)	246	1,076	3, 30, 31, 33*, 39	3, 30, 31, 33*, 39, 46, 47	3, 30, 31, 39
		CO (30-day)	1,228	5,378	30, 31, 32	30, 31, 32, 46, 47	30, 31, 32, 48
		CO (1-hr)	2,456	--	30, 31, 32	30, 31, 32, 46, 47	30, 31, 32, 48
		VOC	29	129	30, 31, 39	30, 31, 39, 46, 47	30, 31, 39
		Organic HAP	--	8.5	3, 30, 31, 38, 39	3, 30, 31, 37, 38, 39, 46, 47	3, 30, 31, 39
		Sulfuric acid mist	127	133	3, 30, 31, 33*, 39	3, 30, 31, 33*, 39, 46, 47	3, 30, 31, 39
		Hydrogen fluoride	2.0	8.6	3, 30, 31, 38, 39, 45	3, 30, 31, 37, 38, 39, 45, 46, 47	3, 30, 31, 39
		Hydrogen chloride	2.2	9.7	3, 30, 31, 38, 39, 45	3, 30, 31, 37, 38, 39, 45, 46, 47	3, 30, 31, 39
		Total Halogenated Acids (5)	--	10.7	3, 30, 31, 38, 39	3, 30, 31, 37, 38, 39, 46, 47	3, 30, 31, 39
		Ammonia	41	55	30, 31, 34	30, 31, 34, 46, 47	30, 31, 48
		Lead	0.55	0.41	3, 7, 30, 31, 38, 39	3, 7, 30, 31, 37, 38, 39, 46, 47	3, 7, 30, 31, 39
		Mercury	0.94	0.038	3, 30, 31, 35	3, 30, 31, 35, 37, 46, 47	3, 30, 31, 48

Permit Number: 70861 and PSDTX1039				Issuance Date: 05/26/2016			
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Spec. Cond.	Spec. Cond.	Spec. Cond.
S01	Startup Emissions PC Boiler	NO <sub>x</sub>	964	--	3, 12, 30, 31, 32	3, 12, 13, 30, 31, 32, 46, 47	3, 30, 31, 32, 48
		SO <sub>2</sub>	2,892	--	3, 7, 12, 30, 31, 32	3, 7, 12, 13, 30, 31, 32, 46, 47	3, 7, 30, 31, 32, 48
		PM/PM <sub>10</sub> (filterable)	123	--	3, 30, 31, 40	3, 13, 30, 31, 40, 46, 47	3, 30, 31
		PM/PM <sub>10</sub> (total)	327	--	3, 30, 31, 40	3, 13, 30, 31, 40, 46, 47	3, 30, 31
		CO	1,228	--	32	13, 32, 47	32, 48
		VOC	43	--	40	13, 40	
		Sulfuric acid mist	111	--	3, 40	3, 13, 40, 47	3
		Hydrogen fluoride	6	--	3, 38, 40	3, 13, 37, 38, 40, 46, 47	3
		Hydrogen chloride	3	--	3, 38, 40	3, 13, 37, 38, 40, 46, 47	3
		Ammonia	41		34	13, 34, 47	34, 48
		Lead	0.55	--	3, 7, 38	3, 7, 13, 37, 38, 46, 47	3, 7
		Mercury	0.90	--	3, 35	3, 13, 35, 37, 47	3, 35, 48
S03a	Railcar Coal Unloading - Baghouse Vent	PM	0.28	0.15	5, 28*, 30, 31, 43	5, 21, 30, 31, 43, 46, 47	5, 30, 31
		PM <sub>10</sub>	0.13	0.072	5, 28*, 30, 31, 43	5, 21, 30, 31, 43, 46, 47	5, 30, 31
S03b	Railcar Coal Unloading - Coal Dust Fugitives (6)	PM	0.28	0.15	5, 27, 30	5, 21, 27, 30, 47	5, 30
		PM <sub>10</sub>	0.13	0.072	5, 27, 30	5, 21, 27, 30, 47	5, 30
S05	Stackout Conveyor #1 - Coal Dust Fugitives (6)	PM	0.25	0.15	5, 27, 30	5, 21, 27, 30, 47	5, 30
		PM <sub>10</sub>	0.12	0.070	5, 27, 30	5, 21, 27, 30, 47	5, 30
S06	Stackout Conveyor #2 - Coal Dust Fugitives (6)	PM	0.13	0.074	5, 27, 30	5, 21, 27, 30, 47	5, 30
		PM <sub>10</sub>	0.059	0.035	5, 27, 30	5, 21, 27, 30, 47	5, 30
S07	Active Coal Pile #1 - Coal Dust Fugitives (6)	PM	0.08	0.36	27	25, 27	
		PM <sub>10</sub>	0.041	0.18	27	25, 27	
S08	Active Coal Pile #2 - Coal Dust Fugitives (6)	PM	0.08	0.36	27	25, 27	
		PM <sub>10</sub>	0.041	0.18	27	25, 27	

Permit Number: 70861 and PSDTX1039					Issuance Date: 05/26/2016		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Spec. Cond.	Spec. Cond.	Spec. Cond.
S09	Active Coal Pile Reclaim - Baghouse Vent	PM	0.002	0.005	5, 28*, 30, 31, 43	5, 30, 31, 43, 46, 47	5, 30, 31
		PM <sub>10</sub>	<0.001	0.002	5, 28*, 30, 31, 43	5, 30, 31, 43, 46, 47	5, 30, 31
S10	Reclaim Conveyor #1 - Coal Dust Fugitives (6)	PM	0.053	0.104	5, 27, 30	5, 21, 27, 30, 47	5, 30
		PM <sub>10</sub>	0.025	0.049	5, 27, 30	5, 21, 27, 30, 47	5, 30
S11	Coal Transfer Tower - Baghouse Vent	PM	0.083	0.049	5, 28*, 30, 31, 43	5, 30, 31, 43, 46, 47	5, 30, 31
		PM <sub>10</sub>	0.039	0.023	5, 28*, 30, 31, 43	5, 30, 31, 43, 46, 47	5, 30, 31
S13	Tripper Deck Silo Bay - Enclosed Conveyor - Baghouse Vent	PM	0.0015	0.0015	5, 28*, 30, 31, 43	5, 30, 31, 43, 46, 47	5, 30, 31
		PM <sub>10</sub>	<0.001	<0.001	5, 28*, 30, 31, 43	5, 30, 31, 43, 46, 47	5, 30, 31
S14	Inactive Coal Pile - Coal Dust Fugitives (6)	PM	0.26	1.12	25, 27	25, 27	
		PM <sub>10</sub>	0.13	0.56	25, 27	25, 27	
S15	Bottom Ash Conveyor & Drop to Bunker - Dust Fugitives (6)	PM	0.0014	0.0014	27	27	
		PM <sub>10</sub>	0.00064	0.00068	27	27	
S16	Bottom Ash Bunker - Truck Loadout - Dust Fugitives (6)	PM	0.041	0.0057	27	27	
		PM <sub>10</sub>	0.019	0.0027	27	27	
S18	Fly Ash Silo - Conveyor Loading - Baghouse Vent	PM	0.31	0.39	28*, 30, 31, 43	30, 31, 43, 46	30, 31
		PM <sub>10</sub>	0.11	0.14	28*, 30, 31, 43	30, 31, 43, 46	30, 31
S24	Fly Ash Transfer Point #2 - Dust Fugitives (6)	PM	0.044	0.027	27	27	
		PM <sub>10</sub>	0.021	0.013	27	27	
S26	Fly Ash Landfill - Dust Fugitives (6)	PM	0.31	1.36	27	27	
		PM <sub>10</sub>	0.16	0.68	27	27	
S29	Pebble Lime Silo 1- Pneumatic Loading - Baghouse Vent	PM	0.090	0.0015	28*, 30, 31, 43	28*, 30, 31, 43, 46	30, 31
		PM <sub>10</sub>	0.043	0.0007	28*, 30, 31, 43	28*, 30, 31, 43, 46	30, 31
S32	Cooling Tower	PM <sub>10</sub>	11	50	30, 31, 42	30, 31, 42, 46	30, 31

Permit Number: 70861 and PSDTX1039			Issuance Date: 05/26/2016				
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Spec. Cond.	Spec. Cond.	Spec. Cond.
S33	Diesel-fired Engine - Emergency Generator (1,500 kW)	NO <sub>x</sub>	25.7	1.29	16, 30, 31, 41	16, 30, 31, 41, 46, 47	30, 31
		SO <sub>2</sub>	0.53	0.027	16, 30, 31, 41	16, 30, 31, 41, 46, 47	30, 31
		CO	2.53	0.13	16, 30, 31, 41	16, 30, 31, 41, 46, 47	30, 31
		PM/PM <sub>10</sub> /PM <sub>2.5</sub>	0.22	0.011	16, 30, 31, 41	16, 30, 31, 41, 46, 47	30, 31
		VOC	0.53	0.027	16, 30, 31, 41	16, 30, 31, 41, 46, 47	30, 31
S34	Diesel-fired Emergency Fire Water Pump (403 hp)	NO <sub>x</sub>	3.41	0.17	17, 30, 31, 41	17, 30, 31, 41, 46, 47	30, 31
		SO <sub>2</sub>	0.11	0.0053	17, 30, 31, 41	17, 30, 31, 41, 46, 47	30, 31
		CO	0.66	0.033	17, 30, 31, 41	17, 30, 31, 41, 46, 47	30, 31
		PM/PM <sub>10</sub> /PM <sub>2.5</sub>	0.081	0.0040	17, 30, 31, 41	17, 30, 31, 41, 46, 47	30, 31
		VOC	0.14	0.0071	17, 30, 31, 41	17, 30, 31, 41, 46, 47	30, 31
S37	Diesel Fuel Storage Tank (800 gallons)	VOC	0.023	<0.001		20, 47	
S38	Diesel Fuel Storage Tank (580 gallons)	VOC	0.056	<0.001		20, 47	
S39	Aqueous Ammonia Fugitives (6)	Ammonia	0.16	0.70	19	19, 47	

Footnotes:

- (1) Emission point identification - either specific equipment designation or emission point number from plot plan.
- (2) Specific point source name. For fugitive sources, use area name or fugitive source name.
- (3) NO<sub>x</sub> - total oxides of nitrogen  
SO<sub>2</sub> - sulfur dioxide  
PM<sub>10</sub> - total particulate matter, suspended in the atmosphere, including PM<sub>10</sub> and PM<sub>2.5</sub>, as represented  
PM<sub>10</sub> - total particulate matter equal to or less than 10 microns in diameter, including PM<sub>2.5</sub>, as represented  
CO - carbon monoxide  
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1  
HAP - hazardous air pollutants
- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period. Annual limits include emissions from normal and planned maintenance, startup, and shutdown emissions.
- (5) Total halogenated acids equals the sum of hydrogen chloride and hydrogen fluoride emissions. Although separate annual emission limits are established for HCl and HF, total annual emissions of these air pollutants shall not exceed the single annual emission limit for total halogenated acids.
- (6) Fugitive emission rate is an estimate and is enforceable through compliance with the applicable special conditions and permit application representations.

\* Opacity-related compliance requirements are listed in order to define compliance items for opacity limits only



## Texas Commission on Environmental Quality Air Quality Permit

*A Permit Is Hereby Issued To*  
**Sandy Creek Services, LLC**  
*Authorizing the Continued Operation of*  
**Sandy Creek Energy Station**  
*Located at* **Riesel, McLennan County, Texas**  
*Latitude* 31° 28' 27" *Longitude* -96° 57' 18"

Permits: 70861 and PSDTX1039

Issuance Date: May 26, 2016

Expiration Date: May 26, 2026

A handwritten signature in black ink, appearing to read "R. D. A. Hyle".

For the Commission

1. **Facilities** covered by this permit shall be constructed and operated as specified in the application for the permit. All representations regarding construction plans and operation procedures contained in the permit application shall be conditions upon which the permit is issued. Variations from these representations shall be unlawful unless the permit holder first makes application to the Texas Commission on Environmental Quality (commission) Executive Director to amend this permit in that regard and such amendment is approved. [Title 30 Texas Administrative Code (TAC) Section 116.116 (30 TAC § 116.116)]<sup>1</sup>
2. **Voiding of Permit.** A permit or permit amendment is automatically void if the holder fails to begin construction within 18 months of the date of issuance, discontinues construction for more than 18 months prior to completion, or fails to complete construction within a reasonable time. Upon request, the executive director may grant an 18-month extension. Before the extension is granted the permit may be subject to revision based on best available control technology, lowest achievable emission rate, and netting or offsets as applicable. One additional extension of up to 18 months may be granted if the permit holder demonstrates that emissions from the facility will comply with all rules and regulations of the commission, the intent of the Texas Clean Air Act (TCAA), including protection of the public's health and physical property; and (b)(1) the permit holder is a party to litigation not of the permit holder's initiation regarding the issuance of the permit; or (b)(2) the permit holder has spent, or committed to spend, at least 10 percent of the estimated total cost of the project up to a maximum of \$5 million. A permit holder granted an extension under subsection (b)(1) of this section may receive one subsequent extension if the permit holder meets the conditions of subsection (b)(2) of this section. [30 TAC § 116.120]
3. **Construction Progress.** Start of construction, construction interruptions exceeding 45 days, and completion of construction shall be reported to the appropriate regional office of the commission not later than 15 working days after occurrence of the event. [30 TAC § 116.115(b)(2)(A)]
4. **Start-up Notification.** The appropriate air program regional office shall be notified prior to the commencement of operations of the facilities authorized by the permit in such a manner that a representative of the commission may be present. The permit holder shall provide a separate notification for the commencement of operations for each unit of phased construction, which may involve a series of units commencing operations at different times. Prior to operation of the facilities authorized by the permit, the permit holder shall identify the source or sources of allowances to be utilized for compliance with Chapter 101, Subchapter H, Division 3 of this title (relating to Mass Emissions Cap and Trade Program). [30 TAC § 116.115(b)(2)(B)]
5. **Sampling Requirements.** If sampling is required, the permit holder shall contact the commission's Office of Compliance and Enforcement prior to sampling to obtain the proper data forms and procedures. All sampling and testing procedures must be approved by the executive director and coordinated with the regional representatives of the commission. The permit holder is also responsible for providing sampling

facilities and conducting the sampling operations or contracting with an independent sampling consultant. [30 TAC § 116.115(b)(2)(C)]

6. **Equivalency of Methods.** The permit holder must demonstrate or otherwise justify the equivalency of emission control methods, sampling or other emission testing methods, and monitoring methods proposed as alternatives to methods indicated in the conditions of the permit. Alternative methods shall be applied for in writing and must be reviewed and approved by the executive director prior to their use in fulfilling any requirements of the permit. [30 TAC § 116.115(b)(2)(D)]
7. **Recordkeeping.** The permit holder shall maintain a copy of the permit along with records containing the information and data sufficient to demonstrate compliance with the permit, including production records and operating hours; keep all required records in a file at the plant site. If, however, the facility normally operates unattended, records shall be maintained at the nearest staffed location within Texas specified in the application; make the records available at the request of personnel from the commission or any air pollution control program having jurisdiction in a timely manner; comply with any additional recordkeeping requirements specified in special conditions in the permit; and retain information in the file for at least two years following the date that the information or data is obtained. [30 TAC § 116.115(b)(2)(E)]
8. **Maximum Allowable Emission Rates.** The total emissions of air contaminants from any of the sources of emissions must not exceed the values stated on the table attached to the permit entitled “Emission Sources--Maximum Allowable Emission Rates.” [30 TAC § 116.115(b)(2)(F)]<sup>1</sup>
9. **Maintenance of Emission Control.** The permitted facilities shall not be operated unless all air pollution emission capture and abatement equipment is maintained in good working order and operating properly during normal facility operations. The permit holder shall provide notification in accordance with 30 TAC §101.201, 101.211, and 101.221 of this title (relating to Emissions Event Reporting and Recordkeeping Requirements; Scheduled Maintenance, Startup, and Shutdown Reporting and Recordkeeping Requirements; and Operational Requirements). [30 TAC§ 116.115(b)(2)(G)]
10. **Compliance with Rules.** Acceptance of a permit by an applicant constitutes an acknowledgment and agreement that the permit holder will comply with all rules and orders of the commission issued in conformity with the TCAA and the conditions precedent to the granting of the permit. If more than one state or federal rule or regulation or permit condition is applicable, the most stringent limit or condition shall govern and be the standard by which compliance shall be demonstrated. Acceptance includes consent to the entrance of commission employees and agents into the permitted premises at reasonable times to investigate conditions relating to the emission or concentration of air contaminants, including compliance with the permit. [30 TAC § 116.115(b)(2)(H)]
11. **This** permit may not be transferred, assigned, or conveyed by the holder except as provided by rule. [30 TAC § 116.110(e)]
12. **There** may be additional special conditions attached to a permit upon issuance or modification of the permit. Such conditions in a permit may be more restrictive than the requirements of Title 30 of the Texas Administrative Code. [30 TAC § 116.115(c)]
13. **Emissions** from this facility must not cause or contribute to “air pollution” as defined in Texas Health and Safety Code (THSC) §382.003(3) or violate THSC § 382.085. If the executive director determines that such a condition or violation occurs, the holder shall implement additional abatement measures as necessary to control or prevent the condition or violation.
14. **The** permit holder shall comply with all the requirements of this permit. Emissions that exceed the limits of this permit are not authorized and are violations of this permit.<sup>1</sup>

<sup>1</sup> Please be advised that the requirements of this provision of the general conditions may not be applicable to greenhouse gas emissions.

## **Special Conditions**

Permit Numbers 70861 and PSDTX1039

### **Emission Rates and Permit Representations**

1. This permit covers only those sources of emissions listed in the attached table entitled "Emission Sources - Maximum Allowable Emission Rates," and those sources are limited to the emission limits and other conditions specified in that attached table. Compliance with the annual emission limits shall be based on throughput for a rolling 12-month year rather than the calendar year.
2. Emission limits are based upon permit representations in the:
  - A. application dated January 9, 2004 as updated March 10, 2005;
  - B. alteration or amendment requests dated: December 14, 2010; February 8, 2011, (with subsequent updates); July 18, 2011 (with subsequent January 26, 2012 update); January 9, 2012; December 5, 2012; July 22, 2014; and September 12, 2014.

### **Federal Applicability**

3. The pulverized coal (PC) boiler, identified as emission point number (EPN) S01, shall comply with applicable requirements of EPA regulations in 40 Code of Federal Regulations (CFR) as follows:
  - A. Part 60, Standards of Performance for New Stationary Sources, Subpart A, General Conditions, and Subpart Da, Standards of Performance for Electric Utility Steam Generating Units; and
  - B. Part 63, National Emission Standards for Hazardous Air Pollutants, Subpart UUUUU for Electric Utility Steam Generating Units, as adopted.
4. The auxiliary boiler, identified as EPN S02, shall comply with the applicable requirements of 40 CFR Part 60, Subpart A, and Subpart Db, Standards of Performance for Industrial, Commercial, and Institutional Boilers.
5. The coal processing, storage and conveying facilities, identified as EPNs S03a, S03b, S05, S06, and S09 through S13, shall comply with the applicable requirements of 40 CFR Part 60, Subpart A, and Subpart Y, Standards of Performance for Coal Preparation Plants.

6. If any condition of this permit is more stringent than the regulations identified in Special Conditions No. 3 through 5, then for the purposes of complying with this permit, the permit shall govern and be the standard by which compliance shall be demonstrated.

**Fuel Specifications, Operating Limitations, Performance Standards, and Construction Specifications**

7. Fuel fired in the PC Boiler, EPN SO1, shall be limited to:
  - A. Low sulfur subbituminous coal with:
    - (1) Sulfur content not to exceed a 12-month rolling average of 0.60 pound per million British thermal units (lb/MMBtu) of heat input and with the heat input based on fuel higher heating value (HHV); and
    - (2) trace metal concentrations not to exceed, on a 12-month rolling average basis, the concentration limitations identified in Attachment A of this permit.
  - B. Pipeline quality natural gas.
  - C. Use of any other fuel will require prior approval from the permitting authority.
  - D. Upon request by the Executive Director of the Texas Commission on Environmental Quality (TCEQ) or any air pollution control program having jurisdiction, the holder of this permit shall provide a sample and/or an analysis of the fuel fired in the PC Boiler, or shall allow air pollution control agency representatives to obtain a sample for analysis.
8. The PC Boiler shall be limited to a maximum heat input of 8,185 MMBtu/hr, averaged over a 12-month rolling period, based on the HHV of the fuel fired.
9. Opacity of emissions from EPN SO1 must not exceed 10 percent, averaged over a six-minute period, except for those periods described in Title 30 Texas Administrative Code § 111.111(a) (1)(E) [30 TAC § 111.111(a)(1)(E)].
10. Emissions from EPN SO1 shall not exceed the performance standards in the following tables.

A. Standards demonstrated by Continuous Emissions Monitoring Systems (CEMS)

<b>Pollutant<sup>1</sup></b>	<b>Performance Standard (lb/MMBtu)<sup>2</sup></b>	<b>Compliance Averaging Period</b>
NO <sub>x</sub>	0.070	30-day rolling
NO <sub>x</sub>	0.050	12-month rolling
SO <sub>2</sub>	0.12	30-day rolling
SO <sub>2</sub>	0.10	12-month rolling
CO	0.15	12-month rolling
	<b>not lb/MMBtu:</b>	
Hg	1.0 (10 <sup>-5</sup> ) lb/MWh	12-month rolling <sup>3</sup>
NH <sub>3</sub>	10 ppm	hourly
NH <sub>3</sub>	3 ppm	12-month rolling

B. Standards demonstrated by Test Method<sup>4</sup> (TM) or SW-846 testing

<b>Pollutant<sup>1</sup></b>	<b>Performance Standard (lb/MMBtu)<sup>2</sup></b>	<b>Compliance Demonstration Period</b>
PM/PM <sub>10</sub> (filterable)	0.015	annual
PM/PM <sub>10</sub> total <sup>5</sup>	0.030	annual
VOC	3.6 (10 <sup>-3</sup> )	annual
Organic HAP <sup>6</sup>	2.4 (10 <sup>-4</sup> )	annual
H <sub>2</sub> SO <sub>4</sub>	3.7 (10 <sup>-3</sup> )	annual
HCl	2.7 (10 <sup>-4</sup> )	annual
HF	2.4 (10 <sup>-4</sup> )	annual
Halogenated Acid HAPs	3.0 (10 <sup>-4</sup> )	annual

Notes:

<sup>1</sup> NO <sub>x</sub> - nitrogen oxides	PM <sub>10</sub> - PM ≤10 μm in diameter
SO <sub>2</sub> - sulfur dioxide	VOC - volatile organic compounds
CO - carbon monoxide	HAPs - hazardous air pollutants
Hg - mercury	H <sub>2</sub> SO <sub>4</sub> - sulfuric acid mist
NH <sub>3</sub> - ammonia	HCl - hydrogen chloride
PM - particulate matter	HF - hydrogen fluoride
Halogenated Acid HAP - combined HF and HCl emissions	

<sup>2</sup>lb/MMBtu - pounds of emissions per million Btu of heat input. Heat input is based on fuel HHV.

lb/MWh - pounds of emission per gross megawatt-hour of electricity output.

ppm - parts per million by volume, dry, adjusted to 5% oxygen (O<sub>2</sub>).

<sup>3</sup> Or other averaging period specified by EPA.

<sup>4</sup> TM - EPA Test Methods, based on the average of three stack sampling runs to be conducted as prescribed by Special Conditions No. 30 and 39.

<sup>5</sup> Total PM/PM<sub>10</sub> including back-half (condensibles) catch of sampling train.

<sup>6</sup> Organic HAP emissions are the total of the organic species listed in Section 112(b)(2) of the Federal Clean Air Act (less the organic compounds identified in 40 CFR 63, Subpart C), as measured using: EPA SW 846, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, Method 0031 for volatile organic HAP and Method 0010 for semi-volatile organic HAP; and EPA Other Test Method 029 (OTM-029) for hydrogen cyanide or other method as determined by Special Condition No. 31.B.

11. During any consecutive 12-month period, plant-wide emissions of HAP listed in Section 112 of the Federal Clean Air Act from the Sandy Creek Energy Station (SCES) shall be less than:
  - A. 10 tons per year of any single HAP; and
  - B. 25 tons per year of all HAP combined.
12. In the event that the CEMS for NO<sub>x</sub> or SO<sub>2</sub> are not operating for a period longer than one hour, the permit holder shall operate at no less than the ammonia feed rate to the selective catalytic reduction (SCR) system and the sorbent feed rate to the flue gas desulfurization system that were established during a successful initial performance test (adjusted for load) or at the feed rates that were measured prior to the loss of the CEMS, whichever feed rates are higher.
13. The holder of this permit shall operate the PC Boiler and associated air pollution control equipment in accordance with good air pollution control practice to minimize emissions during startup and shutdown, by operating in accordance with a written startup and shutdown plan. The plan shall include detailed procedures for

review of relevant operating parameters of the PC Boiler and associated air pollution control equipment during startup and shutdown to make adjustments and corrections to reduce or eliminate any excess emissions. The plan shall also address readily foreseeable startup scenarios, including hot startups, when the operation of the boiler is only temporarily interrupted, and provide for appropriate review of the operational condition of the boiler before initiating startup.

14. The PC Boiler Stack, EPN S01, will be approximately 360 feet tall with an exit diameter of 28 feet. Stack sampling ports and platform(s) shall be constructed on the stack as specified in the attachment entitled "Chapter 2, Stack Sampling Facilities," or an alternate design may be required at a later date if determined necessary by the Director of the TCEQ Waco Regional Office. Adequate advance notice shall be provided by TCEQ if an alternate design is required.
15. The auxiliary boiler, identified as EPN S02, shall meet the following specifications:
  - A. Emissions of NO<sub>x</sub> shall not exceed 9 ppmv, dry, corrected to 3% O<sub>2</sub>, averaged over 3 hours of operation.
  - B. Opacity of emissions shall not exceed 10 percent.
  - C. Fuel shall be limited to pipeline quality natural gas.
  - D. After commercial operation of the PC boiler, EPN S02 operation shall be limited to a maximum of 500 hours per year.
16. The 1500 kW emergency diesel fuel-fired electric generator, identified as EPN S33, shall meet the following specifications:
  - A. The engine shall be certified by the manufacturer to comply with the applicable emission specifications of 40 CFR 60, Standards of Performance for Stationary Compression Ignition Internal Combustion Engines.
  - B. Fuel shall be limited to diesel engine fuel containing no more than 15 ppm by weight sulfur. Purchased diesel engine fuel shall comply with the EPA standards for nonroad diesel fuel in 40 CFR 80, Regulation of Fuels and Fuel Additives, in effect at the time of purchase.
  - C. Operation for maintenance and testing shall be limited to a maximum of 100 hours per year.

17. The 403 hp emergency diesel fuel-fired fire water pump, identified as EPN S34, shall meet the following specifications:
  - A. The engine shall be certified by the manufacturer to comply with the applicable emission specifications of 40 CFR 60, Standards of Performance for Stationary Compression Ignition Internal Combustion Engines.
  - B. Fuel shall be limited to diesel engine fuel containing no more than 15 ppm by weight sulfur. Purchased diesel engine fuel shall comply with the EPA standards for nonroad diesel fuel in 40 CFR 80, Regulation of Fuels and Fuel Additives, in effect at the time of purchase.
  - C. Operation shall be limited to a maximum of 100 hours per year unless a greater number of hours of operation is required to fight a fire.

### **Chemical and Fuel Storage**

18. Aqueous ammonia storage tanks shall be located within a physical barrier to traffic. Tank containment shall be employed with a minimum of 110% of tank volume.
19. Audio, olfactory, and visual checks for ammonia and water treatment chemical leaks shall be made once per shift within the operating area.
  - A. No later than one hour following detection of a leak, plant personnel shall take the following actions:
    - (1) Locate and isolate the leak.
    - (2) Use a leak collection or containment system to control the leak until repair or replacement can be made.
  - B. Within 24 hours of detection of a leak, plant personnel shall commence repair or replacement of the leaking component as appropriate.

20. In any consecutive 12-month period, the holder of this permit shall not receive more than the following quantities of diesel fuel:

<b>Tank Number</b>	<b>12-month throughput</b>
S37	50,000
S38	2,500

### **Material Handling Operating Limitations and Standards**

21. Annual coal received at the Sandy Creek site shall not exceed 4.37 million tons per calendar year. Coal shall be delivered at the rail car unloading building which shall be partially enclosed as described in the application.
22. If spontaneous combustion occurs in a coal stockpile, plant personnel will begin efforts as soon as possible to extinguish the fire, except when extinguishing the fire may unduly jeopardize the safety of plant personnel and equipment, or may cause the fire to spread, in which case the stockpile fire may be permitted to burn itself out.
23. A watering truck and/or the coal yard watering system shall be used to minimize dust emissions from the active coal storage pile area. Surface crusting agents or like chemicals shall be used to minimize dust emissions from the inactive coal storage pile area.
24. Permanent plant roads shall be paved with a cohesive hard surface which can be cleaned by sweeping or washing. Other roads shall be sprinkled with water and/or surface crusting agents as necessary to maintain compliance with all TCEQ rules and regulations.
25. Material storage area footprints shall be limited as follows:

<b>Source</b>	<b>EPN</b>	<b>Area</b>
Active Coal Pile No.1	SO7	27,560 ft <sup>2</sup>
Active Coal Pile No. 2	SO8	27,560 ft <sup>2</sup>
Inactive coal pile	S14	600,625 ft <sup>2</sup>
Disposal area - active	S26a	43,560 ft <sup>2</sup>

## Special Conditions

Permit Numbers 70861 and PSDTX1039

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working face*		
Disposal area - inactive exposed surfaces*	S26b	217,800 ft <sup>2</sup>

\*footprint is not limited to a specific location

26. All conveyors shall be covered, enclosed, partially covered, or partially enclosed, as represented in the application, to minimize fugitive PM emissions. If visibility problems occur, additional controls may be required. Coverings and enclosures are considered abatement equipment, and should be kept in good repair.
27. Fugitive emissions from the transfer points on belt conveyors, any material handling, and the stockpile activities shall not create an off-property nuisance condition. A trained observer with delegation from the Executive Director of the TCEQ may determine compliance with this special condition by 40 CFR Part 60, Appendix A, TM 22, or equivalent. Continuous demonstration of compliance with this special condition is not required. If this condition is violated, additional controls or process changes may be required to limit visible PM emissions.
28. As determined by a certified opacity observer with delegation from the Executive Director of the TCEQ and according to 40 CFR 60, Appendix A, TM 9, or equivalent, opacity of emissions from any single fabric filter baghouse stack listed in Special Condition No. 29 shall not exceed 5 percent averaged over a six-minute period. Continuous demonstration of compliance with this special condition is not required.
29. Material handling baghouses, designed to meet an emission limit of 0.01 grain PM per dry standard cubic foot of exhaust, properly installed and in good working order, shall control PM emissions from the following sources:

<b>Source</b>	<b>EPN</b>
Railcar coal unloading station and substructure	So3a
Active coal pile reclaim	So9
Coal transfer tower	S11
Coal silos and tripper deck conveyor	S13
Fly ash silo	S18
Lime silo	S29

### **Initial Demonstration of Compliance**

30. Unless already conducted, the holder of this permit shall perform initial stack sampling and other testing to establish the actual quantities of air contaminants being emitted into the atmosphere. Unless otherwise specified in this Special Condition No. 30, the sampling and testing shall be conducted in accordance with the methods and procedures specified in Special Condition No. 31. The holder of this permit is responsible for providing sampling and testing facilities and conducting the sampling and testing operations at his expense. The TCEQ Executive Director or his designated representative shall be afforded the opportunity to observe all such sampling.

A. For the PC Boiler, EPN S01:

- (1) Demonstrate compliance with the performance standards of Special Condition No. 10.B and the hourly emission rates of the maximum allowable emissions rate table (MAERT), applicable to normal operations, using the average of three stack sampling test runs of at least one hour per run for each contaminant.
- (2) Air contaminants to be sampled and analyzed under (1) above include: NO<sub>x</sub>, SO<sub>2</sub>, CO, VOC, H<sub>2</sub>SO<sub>4</sub>, HCl, HF, PM, PM<sub>10</sub>, NH<sub>3</sub>, Hg, phosphorus, non-Hg HAP metals, and organic HAP. Diluents to be measured include O<sub>2</sub> or carbon dioxide (CO<sub>2</sub>).
- (3) Demonstrate compliance with the performance standards of Special Condition No. 9 applicable to normal operations, using the average of 30 six-minute readings as provided in 40 CFR 60.11(b).
- (4) Demonstrate compliance with 40 CFR 60, Subparts A and Da, for NO<sub>x</sub>, SO<sub>2</sub>, PM, and opacity.
- (5) Demonstrate compliance with the lb/MMBtu performance standards listed on Attachment A and the lb/hr emission rate for lead listed on the MAERT using the average of three stack sampling test runs.
- (6) Calculate HCl, HF and SeO removal efficiencies based on the difference between the stack sampling results for these compounds and an analysis of their concentration in a sample of coal that is representative of the fuel being fired during the stack testing. Removal efficiencies are calculated as

follows:

$$\eta = \frac{HAP_{Coal} - HAP_{Stack}}{HAP_{Coal}} \times 100\%$$

Where:

$\eta$  = Removal efficiency, %

$HAP_{Coal}$  = Concentration of the HAP in coal, lb/MMBtu as converted from elemental form as tested (i.e. Cl, F and Se)

$HAP_{Stack}$  = Concentration of the HAP as determined by stack test, lb/MMBtu

(7) Boiler load during testing shall be maintained as follows.

(a) Operate at maximum firing rates for the atmospheric conditions occurring during the test as measured by millions of pounds of steam generated per hour or MW of electric generator output. If the steam generating unit is unable to operate at maximum rates during testing, then additional stack testing may be required when higher production rates are achieved.

(b) During 30-day average emission testing, the boiler load does not have to be maximum, but the load must be representative of future operating conditions and must include at least one 24-hour period at full load.

(c) Separate and additional to (a), operate at 50 percent load while testing for VOC emissions in order to demonstrate compliance with the VOC emission limits at reduced load as well as full load.

(8) During the sampling runs for HCl and HF, the permit holder shall monitor and record the rate of sorbent injection into the spray dryer absorber ("Demonstration Sorbent Injection Rate").

(9) Initial compliance testing as specified in Special Condition Nos. 30A(1)-(5) and (7) were completed on April 12, 2013 and June 6, 2013. The report demonstrating compliance with Special Condition Nos. 30A(6) and 30A(8) was filed on August 6, 2013.

B. For the auxiliary boiler, EPN S02:

- (1) Demonstrate compliance with the NO<sub>x</sub> performance standard of Special Condition No. 15 and the hourly NO<sub>x</sub> and CO emission rates of the MAERT, using the average of three one-hour stack sampling test runs for each contaminant.
  - (2) Demonstrate compliance with the opacity limitation of 40 CFR 60 Subpart Db and Special Condition No. 15.
  - (3) Demonstrate compliance with the SO<sub>2</sub> emission rate of the MAERT through fuel sampling to demonstrate use of pipeline quality natural gas.
  - (4) Demonstrate compliance with the PM/PM<sub>10</sub> and VOC emission rates of the MAERT through operation of the auxiliary boiler within its design limitations.
  - (5) Initial compliance testing as specified in Special Condition Nos. 30B(1) and (2) were completed on October 19, 2011.
- C. (1) For the coal handling facilities with stack emissions, EPNs S03a, S09, S11, and S13, demonstrate compliance with the opacity limits of this permit and 40 CFR 60, Subpart Y.
- (2) For the coal handling facilities with fugitive emissions, EPNs S03b, S05, S06, S10, and S12, demonstrate compliance with the opacity limits of 40 CFR 60, Subpart Y using 40 CFR Part 60, Appendix A, Test Method 22.
- (3) Initial compliance testing as specified in Special Condition Nos. 30C(1) and (2) were completed on April 10, 2013.
- D. For at least one material handling baghouse, to be selected by the Waco Regional Director of the TCEQ, or his designated representative, sample PM emissions using TM 5 testing to show compliance with the emission limit of Special Condition No. 29. This initial compliance testing was completed on April 11, 2013.
- E. For the emergency generator and fire-water pump, EPNs S33 and S34, demonstrate compliance with the emission rates of the MAERT by showing compliance with the requirements of Special Condition No. 16 and 17, respectively.
- F. For the cooling tower, EPN S32, demonstrate compliance with the emission rates of the MAERT by records that demonstrate that the drift eliminators are designed to limit drift as specified in the application, and by inspection of modules, selected by the regional director or his designated representative, for:

consistency with the specified design; flow bypassing the drift eliminators; and damage to the eliminators.

- G. Requests to waive testing for any pollutant specified in this condition shall be submitted to the TCEQ Waco Regional Office and the TCEQ Austin Office of Air, Air Permits Division. Test waivers and alternate or equivalent procedure proposals for New Source Performance Standards testing which must have EPA approval shall be submitted to the TCEQ Waco Regional Office.
- H. Sampling as required by this condition shall occur within 60 days after achieving the maximum fuel firing rate at which the PC Boiler will be operated but no later than 180 days after initial start-up. The first boiler operating day of 30-day average initial performance testing required by 40 CFR 60.46a(f) must commence within this time.

### **Test Methods and Procedures**

- 31. A. Sampling shall be conducted in accordance with the appropriate procedures of the TCEQ Sampling Procedures Manual; EPA Methods in 40 CFR Part 60, Appendix A; 40 CFR Part 63, Appendix A; 40 CFR Part 51, Appendix M; EPA Other Test Methods; EPA Conditional Test Methods; EPA SW 846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods"; and American Society for Testing and Materials (ASTM) as follows:
  - (1) Appendix A, Methods 1 through 4, as appropriate, for exhaust flow, diluent, and moisture concentration;
  - (2) Appendix A, Method 5 or 17, modified to include back-half condensibles, for the concentration of PM;
  - (3) Appendix A, Method 5 or 17, for the filterable concentration of PM (front-half catch);
  - (4) Appendix A, Method 6, 6a, 6c, or 8, for the concentration of SO<sub>2</sub>;
  - (5) Appendix A, Method 7E for the concentrations of NO<sub>x</sub> and O<sub>2</sub>, or equivalent methods;
  - (6) Appendix A, Method 8 or a modified Method 8 for H<sub>2</sub>SO<sub>4</sub>;
  - (7) Appendix A, Method 9 for opacity;
  - (8) Appendix A, Method 10 for the concentration of CO;
  - (9) Appendix A, Method 18 for acrolein and methyl chloride;

- (10) Appendix A, Method 19, for applicable calculation methods;
  - (11) Appendix A, Method 23 for dioxin/furan;
  - (12) Appendix A, Method 25A, modified to exclude methane and ethane, for the concentration of VOC (to measure total carbon as propane);
  - (13) Appendix A, Method 26 or 26A for HCl and HF;
  - (14) EPA Conditional Test Method 27 (CTM-027), for NH<sub>3</sub>;
  - (15) Appendix A, Method 29 for the metals listed in Attachment A and phosphorous;
  - (16) Appendix M, Methods 201A and 202, or Appendix A, Test Method 5, modified to include back-half condensibles, for the concentration of particulate matter less than 10 microns in diameter, PM<sub>10</sub>;
  - (17) Appendix M, Methods 201A or Appendix A, Test Method 5, for the filterable concentration of particulate matter less than 10 microns in diameter, PM<sub>10</sub> (front-half catch);
  - (18) ASTM D6784-02, Standard Test Method for Elemental, Oxidized, Particle-Bound, and Total Mercury in Flue Gas Generated from Coal-Fired Stationary Sources (also known as the Ontario Hydro Method), or other approved EPA methods for measuring mercury;
  - (19) EPA SW 846, Method 0031 with analytical method 8260B for volatile organic HAP, Method 0010 with analytical method 8270D for semi-volatile organic HAP, and Method 0011 with analytical method 8315A for formaldehyde, acetaldehyde, and other select aldehydes, and ketones;
  - (20) EPA 40 CFR 63, Appendix A, Method 320 is an acceptable alternative for aldehydes;
  - (21) EPA Other Test Method 029 (OTM-029) for hydrogen cyanide;
  - (22) Any deviations from those procedures must be approved by the Executive Director of the TCEQ prior to sampling.
- B. The TCEQ Waco Regional Office shall be given notice as soon as testing is scheduled but not less than 30 days prior to sampling to schedule a pretest meeting.
- (1) The notice shall include:
    - (a) Date for pretest meeting.
    - (b) Date sampling will occur.

- (c) Name of firm conducting sampling.
  - (d) Type of sampling equipment to be used.
  - (e) Method or procedure to be used in sampling.
  - (f) Projected date of commencement of the 30-day rolling average initial performance tests for SO<sub>2</sub> and NO<sub>x</sub>, in accordance with 40 CFR 60.46a(f).
- (2) The purpose of the pretest meeting is to review the necessary sampling and testing procedures, to provide the proper data forms for recording pertinent data, and to review the format procedures for submitting the test reports. The permit holder shall present at the pretest meeting the manner in which stack sampling will be executed in order to demonstrate compliance with emission standards found in this permit and 40 CFR Part 60, Subparts Da, Db, and Y.
- (3) Prior to the pretest meeting, a written proposed description of any deviation from sampling procedures specified in permit conditions or TCEQ, EPA or ASTM sampling procedures shall be made available to the TCEQ. The TCEQ Regional Director shall approve or disapprove of any deviation from specified sampling procedures.
- C. Information in the test report shall include the following data for each test run:
- (1) hourly coal firing rate (in tons);
  - (2) average coal Btu/lb as-received and dry weight;
  - (3) average steam generation rate in millions of pounds per hour;
  - (4) average generator output in MW;
  - (5) daily sulfur content and heat content of the fuel measured in accordance with EPA TM 19 to show compliance with 40 CFR 60, Subpart Da;
  - (6) control device operating rates, including SCR reagent injection rate, the Demonstration Sorbent Injection Rate, as defined in Special Condition No. 30, and if applicable, the lime/ash reinjection rate;
  - (7) emissions in the units of the limits of this permit, lb/hr and lb/MMBtu, three-hour or 30-day average, as appropriate.

(8) any additional records deemed necessary during the stack sampling pre-test meeting.

- D. Two copies of the final sampling report shall be forwarded to the TCEQ within 60 days after sampling is completed. Sampling reports shall comply with the attached conditions of Chapter 14 of the TCEQ Sampling Procedures Manual. The reports shall be distributed as follows:

One copy to the TCEQ Waco Regional Office.

One copy to the TCEQ Austin Office of Air, Air Permits Division.

### **Continuous Demonstration of Compliance**

32. The holder of this permit shall install, calibrate, maintain, and operate a continuous emission monitoring system (CEMS) to measure and record the concentrations of NO<sub>x</sub>, CO, and SO<sub>2</sub> from EPN So1. Diluents to be measured include O<sub>2</sub> or CO<sub>2</sub>. The CEMS data shall be used to determine continuous compliance with the NO<sub>x</sub>, CO, and SO<sub>2</sub> emission limitations in Special Condition No. 3A (NO<sub>x</sub> and SO<sub>2</sub>), Special Condition No. 10A, and the attached MAERT. Continuous compliance with the performance standards of Special Condition No. 10A shall commence on the first boiler operating day of the 30-day initial performance testing required by NSPS Subpart Da.

- A. The CEMS shall meet the design and performance specifications, pass the field tests, and meet the installation requirements and the data analysis and reporting requirements specified in the applicable Performance Specification Nos. 1 through 9, 40 CFR Part 60, Appendix B or an acceptable alternative. If there are no applicable performance specifications in 40 CFR Part 60, Appendix B, contact the TCEQ Austin Office of Air, Air Permits Division for requirements to be met.
- B. The holder of this permit shall assure that the CEMS meets the applicable quality assurance requirements specified in 40 CFR Part 60, Appendix F, Procedure 1, or an acceptable alternative. Relative accuracy exceedances, as specified in 40 CFR Part 60, Appendix F, § 5.2.3 and any CEMS downtime and all cylinder gas audit exceedances of ±15 percent accuracy shall be reported semiannually to the appropriate TCEQ Regional Director, and necessary corrective action shall be taken. Supplemental stack concentration measurements may be required at the discretion of the appropriate TCEQ Regional Director.

- C. The monitoring data shall be reduced to hourly average concentrations at least once a day, using normally a minimum of four equally-spaced data points from each one-hour period. The individual average concentrations shall be reduced to units of the permit allowable emission rate in pounds per hour at least once a day. Pound per hour data shall be summed on a monthly basis to tons per year and used to determine compliance with the annual emissions limits of this permit. If the CEMS malfunctions, then the recorded concentrations may be reduced to units of the permit allowable as soon as practicable after the CEMS resumes normal operation.
  - D. The appropriate TCEQ Regional Office shall be notified at least 30 days prior to any required relative accuracy test audits in order to provide them the opportunity to observe the testing.
  - E. If applicable, each CEMS will be required to meet the design and performance specifications, pass the field tests, and meet the installation requirements and data analysis and reporting requirements specified in the applicable performance specifications in 40 CFR Part 75, Appendix A and B, as an acceptable alternative to paragraph A. of this condition.
  - F. Each CEMS shall be operational during 95% of the operating hours of the PC Boiler, exclusive of the time required for zero and span checks. If this operational criterion is not met for the reporting quarter, the holder of this permit shall develop and implement a monitor quality improvement plan. The plan should address the downtime issues to improve availability and reliability. The plan should provide additional assurance of compliance including record keeping of reagent flow rates for monitor downtime periods.
33. The holder of this permit shall install, calibrate, operate, and maintain a continuous opacity monitoring system (COMS) to measure and record the opacity of emissions from EPN So1. The COMS data shall be used to determine continuous compliance with the opacity emission limitations in Special Conditions No. 3A and 9.
- A. The COMS shall satisfy all of the Federal NSPS requirements for COMS as specified in 40 CFR Part 60, Appendix B, Performance Specification 1 (PS-1). In order to demonstrate compliance with PS-1, the COMS shall meet the manufacturer's design and performance specifications, and undergo performance evaluation testing as outlined in 40 CFR 60, Subpart A, § 60.13. The TCEQ Regional Director shall be notified 30 days prior to the certification.

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- B. The COMS shall be zeroed and spanned daily as specified in 40 CFR Part § 60.13. Corrective action shall be taken when the 24-hour span drift exceeds two times the amounts specified in PS-1, or as specified by the TCEQ if not specified in PS-1.
  - C. If the EPA promulgates a quality assurance, quality control standard for the COMS, a Quality Assurance Plan (QAP) shall be prepared in accordance with the EPA standard for the COMS and adhered to, within six months after promulgation. The QAP shall be maintained to reflect changes to component technology. At the request of the TCEQ Regional Director, the holder of this permit shall submit documentation demonstrating compliance with these standards.
  - D. The data shall be reduced to six-minute opacity averages, using a minimum of 36 equally-spaced data points from each six-minute period.
  - E. The COMS shall be operational during 95% of the operating hours of the PC Boiler, exclusive of the time required for zero and span checks. If this operational criterion is not met for the reporting quarter, the holder of this permit shall develop and implement a monitor quality improvement plan. The plan should address the downtime issues to improve availability and reliability. The plan should provide additional assurance of compliance including EPA Test Method 9 support during daytime monitor downtime periods and parametric support for nighttime monitor downtime periods.
  - F. Recertification, if required, shall be based on the requirements of 40 CFR Part 60, Appendix B, PS-1 in effect at the time of initial certification.
34. The holder of this permit shall install, calibrate, operate, and maintain a CEMS to measure and record the concentration of  $\text{NH}_3$  from EPN SO1. The  $\text{NH}_3$  concentrations shall be corrected and reported in accordance with Special Condition No. 10A. The CEMS data shall be used to determine continuous compliance with the  $\text{NH}_3$  performance specifications in Special Condition No. 10A and the MAERT. Any other method used for measuring  $\text{NH}_3$  slip shall require prior approval from the TCEQ Waco Regional Office, with consultation between the Regional Office and the TCEQ Austin Air Permits Division.
35. The holder of this permit shall install, calibrate, operate, and maintain a CEMS or sorbent trap monitoring system to measure and record the concentration of mercury from EPN SO1, as described in 40 CFR Part 63. The continuous monitoring system data shall be used to demonstrate continuous compliance with

the emission limitations of Special Condition No. 10A and the MAERT.

36. If any emission monitor fails to meet specified performance, it shall be repaired or replaced as soon as reasonably possible.
37. The holder of this permit shall use the following procedures and equations to calculate the monthly plant-wide emissions of each single HAP and the combined total HAP from the SCES. The monthly emissions of each single HAP and the combined HAP shall be summed each month to tons per year and used to determine compliance with the annual HAP emission limits of Special Condition No. 11 and the MAERT.

A. Calculation of monthly HCl emissions from the PC-fired boiler:

$$HCl = \frac{1 \text{ ton}}{2000 \text{ lb}} \sum_{i=1}^n (EF_{HCl}) \times HI_i$$

Where:

HCl = Monthly HCl emissions from the PC Boiler in tons per month.

HI<sub>i</sub> = Heat input in MMBtu/hr for the i<sup>th</sup> operating hour in the month as calculated from the Part 75-certified CEMS.

n = Number of operating hours in the month.

EF<sub>HCl</sub> = (CC/GCV)(1-HCl<sub>R</sub>)(HCl/Cl)

CC = Monthly average chlorine content as computed from data obtained pursuant to Special Condition No. 38.

GCV = Monthly average gross calorific value as computed from data obtained pursuant to Special Condition No. 38.

HCl<sub>R</sub> = Percent removal of HCl, as used in the calculation of EF<sub>HCl</sub>, determined from the most recent stack testing results in Special Condition Nos. 30.A. and 39, approved by the TCEQ Waco Regional Office.

HCl/Cl = HCl-to-Cl conversion factor = 36.5/35.5.

B. Calculation of monthly HF emissions from the PC-fired boiler:

$$HF = \frac{1 \text{ ton}}{2000 \text{ lb}} \sum_{i=1}^n (EF_{HF}) \times HI_i$$

Where:

- HF = Monthly HF emissions from the PC-fired boiler in tons per month.
- $HI_i$  = Heat input in MMBtu/hr for the  $i^{\text{th}}$  operating hour in the month as calculated from the Part 75-certified CEMS.
- n = Number of operating hours in the month.
- $EF_{HF}$  =  $(FC/GCV)(1-HF_R)(HF/F)$
- FC = Monthly average fluorine content as computed from data obtained pursuant to Special Condition No. 38.
- GCV = Monthly average gross calorific value as computed from data obtained pursuant to Special Condition No. 38.
- $HF_R$  = Percent removal of HF, as used in the calculation of  $EF_{HF}$ , determined from the most recent stack testing results in Special Condition Nos. 30.A. and 39, approved by the TCEQ Waco Regional Office.
- $HF/F$  = HF-to-F conversion factor = 20.0/19.0.

C. Calculation of monthly emissions of non-mercury metal compounds (other than selenium compounds) that are included in Section 112 of the Clean Air Act from the PC-fired boiler:

$$\text{Metal compound}_j = \frac{1 \text{ ton}}{2000 \text{ lb}} \sum_{i=1}^n (EF_{MC})_j \times \frac{HI_i}{10^6}$$

Where:

Metal compound<sub>j</sub> = Monthly emissions of the j<sup>th</sup> metal compound (excluding mercury and selenium), assuming the compound is the lowest oxidized species of the elemental metal (antimony, arsenic, beryllium, cadmium, chromium, cobalt, lead, manganese, and nickel), from the PC-fired boiler in tons per month.

HI<sub>i</sub> = Heat input in MMBtu/hr for the i<sup>th</sup> operating hour in the month as calculated from the Part 75-certified CEMS.

n = Number of operating hours in the month.

EFMC<sub>j</sub> = Emission Factor of the j<sup>th</sup> metal compound in pounds of pollutant per trillion Btu heat input (lb/TBtu), derived utilizing the following equations:

Metal Compound	MW <sub>Compound</sub>	MW <sub>Element</sub>	Equation
Antimony trioxide (Sb <sub>2</sub> O <sub>3</sub> )	291.50	121.75	(1.10) X <sup>0.63</sup>
Arsenic trioxide (As <sub>2</sub> O <sub>3</sub> )	197.84	74.92	(4.09) X <sup>0.85</sup>
Beryllium oxide (BeO)	25.01	9.01	(3.33) X <sup>1.1</sup>
Cadmium oxide (CdO)	128.41	112.41	(3.77) X <sup>0.50</sup>
Chromium oxide (CrO)	68.00	52.00	(4.84) X <sup>0.58</sup>
Cobalt oxide (CoO)	74.93	58.93	(2.16) X <sup>0.69</sup>
Lead oxide (PbO)	223.19	207.19	(3.66) X <sup>0.80</sup>
Manganese dioxide (MnO <sub>2</sub> )	70.94	54.94	(4.91) X <sup>0.60</sup>
Nickel oxide (NiO)	74.70	58.70	(5.60) X <sup>0.48</sup>

Where X = (MC<sub>j</sub>/AC \* PM)

and

MC<sub>j</sub> = Monthly average of the j<sup>th</sup> metal content as computed from data obtained pursuant to Special Condition No. 38, expressed in parts per million.

AC = Monthly average of the ash content of the coal as computed from data obtained pursuant to Special Condition No. 38.

PM = Maximum filterable particulate matter concentration, 0.015 lb/MMBtu.

- D. Calculation of monthly emissions of selenium dioxide (SeO<sub>2</sub>) from the PC-fired boiler:

$$\text{SeO}_2 = \frac{1 \text{ ton}}{2000 \text{ lb}} \sum_{i=1}^n (\text{EF}_{\text{SeO}_2}) \times \text{HI}_i$$

Where:

SeO<sub>2</sub> = Monthly SeO<sub>2</sub> emissions from the PC-fired boiler in tons per month.

HI<sub>i</sub> = Heat input in MMBtu/hr for the i<sup>th</sup> operating hour in the month as calculated from the Part 75-certified CEMS.

n = Number of operating hours in the month.

EF<sub>SeO<sub>2</sub></sub> = (SeC/GCV)(1-SeO<sub>2R</sub>)(SeO<sub>2</sub>/Se)

SeC = Monthly average selenium content as computed from data obtained pursuant to Special Condition No. 38.

GCV = Monthly average gross calorific value as computed from data obtained pursuant to Special Condition No. 38.

SeO<sub>2R</sub> = Percent removal of SeO<sub>2</sub> from stack testing results in Special Condition Nos. 30.A. and 39, approved by the TCEQ Waco Regional Office.

SeO<sub>2</sub>/O = SeO<sub>2</sub>-to-Se conversion factor = 110.96/78.96.

- E. Calculation of monthly emissions of all other substances that are listed in Section 112 of the Clean Air Act from the PC-fired boiler:

$$HAP_j = \frac{1 \text{ ton}}{2000 \text{ lb}} \sum_{i=1}^n (EF)_j \times HI_i$$

Where,

- HAP<sub>j</sub> = Monthly emissions of the j<sup>th</sup> HAP of all other substances included in section 112 of the Clean Air Act from the PC-fired boiler in tons per month.
- HI<sub>i</sub> = Heat input in MMBtu/hr for the i<sup>th</sup> operating hour in the month as calculated from the Part 75-certified CEMS.
- n = Number of operating hours in the month.
- EF = Test-generated emission factor in lbs/MMBtu from stack testing results in Special Condition Nos. 30.A.(2) and 39, and approved by the TCEQ Waco Regional Office.

- F. Calculation of monthly emissions of all HAPs that are listed in Section 112 of the Clean Air Act from the other combustion sources (the auxiliary boiler, emergency generator, and emergency fire water pump) at the SCES:

$$OC_j = (EF)_j \times HI$$

Where,

- OC<sub>j</sub> = Monthly emissions of the j<sup>th</sup> HAP of all HAPs listed in section 112 of the Clean Air Act from the auxiliary boiler and emergency engines, in tons per month.
- EF = Emission Factor in lbs/MMBtu from HAP emission factors for the auxiliary boiler and emergency engines listed in the updated permit alteration representations dated April 20, 2011.
- HI = Total heat input in MMBtu for the month for the combustion source.

- G. Monthly mercury emissions using data acquired by the Mercury CEMS.

- H. Individual and combined HAP emissions are assumed to be:

- (1) from all coal and ash handling emissions, 0.006 ton per year of metallic

HAP; and

(2) from all fuel storage tanks, 0.002 ton per year of organic HAP.

- I. Total HAPs emitted each month shall be calculated by adding the individual HAP emissions from Special Condition No. 37 (A)-(G).
38. The holder of this permit shall obtain a representative sample of the coal as-fired on a weekly basis for analysis for sulfur content (%S), moisture content, ash content, chlorine content, fluorine content, antimony content, arsenic content, beryllium content, cadmium content, chromium content, cobalt content, lead content, manganese content, nickel content, selenium content, and gross calorific value (GCV). The sample shall be acquired and analyzed using the procedures of 40 CFR Part 60, Appendix A, Test Method 19, § 5.2.1. The sample data shall be used after the initial demonstration of compliance to:
- A. determine ongoing compliance with the non-mercury metal performance standards identified in Attachment A of this permit, the emission rates for lead in the MAERT, and the sulfur content of Special Condition No. 7; and
  - B. calculate the on-going HAP emissions in accordance with the calculation procedures of Special Condition No. 37.
39. Ongoing stack sampling of EPN S01 for H<sub>2</sub>SO<sub>4</sub>, HCl, HF, HCN, phosphorus, VOC, volatile organic HAP, semi-volatile organic HAP, dioxins, non-mercury HAP metals, and total PM/PM<sub>10</sub> emissions shall be used to demonstrate ongoing compliance and shall meet the following specifications:
- A. Stack sampling shall be performed once annually during periods of normal operation, except as follows:
    - (1) If the test does not establish compliance with a performance standard of Special Condition No. 10B, the holder of this permit may conduct additional tests during the year to be averaged with the previous test(s) to demonstrate compliance.
    - (2) Based on historical test results, the average of the stack sampling results for each pollutant tested is less than 70% of the applicable performance standard identified in Special Condition No. 10B, thus compliance stack sampling for each pollutant tested is to be conducted once every three years.

(3) For HCl, HF, and organic HAPs:

- (a) stack testing was conducted at six-month intervals for the two-year period starting with the initial performance test required by Special Condition No. 30; and
    - (b) for three years thereafter, if the most recent performance test required or allowed by this Special Condition measures emissions above 90% of the performance standard identified in Special Condition No. 10B, another performance test for that constituent shall be conducted within six months.
  - B. Sampling required in (A.) of this Special Condition shall demonstrate compliance with the performance standards of Special Condition No. 10B and the lb/hr emission limits of the MAERT applicable to normal operations.
  - C. Sampling required in (A.) of this Special Condition shall be conducted in accordance with the methods, procedures, and notification protocol specified in Special Condition No. 31.
  - D. Ongoing compliance with the H<sub>2</sub>SO<sub>4</sub> tons per year emission rates in the MAERT shall be demonstrated by calculating rolling 12-month annual emissions from emission factors (lb/MMBtu, HHV) obtained from the sampling required in (A.) of this condition and the monthly total heat input (MMBtu, HHV) from coal.
40. Compliance with the following emission rates in the MAERT, applicable to periods of startup and shutdown, will be demonstrated as follows:
- A. Compliance with the lead and PM and PM<sub>10</sub> (filterable and total) emission rates in the MAERT applicable during startup and shutdown will be demonstrated if the recorded pressure drop across the baghouse meet manufacturer guidelines for proper operation during startup and shutdown.
  - B. Compliance with the VOC emission rate in the MAERT applicable during startup and shutdown will be demonstrated if the CO emissions during startup and shutdown are in compliance with the CO emission rate in the MAERT for startup and shutdown.
  - C. Compliance with the H<sub>2</sub>SO<sub>4</sub>, HF, and HCl emission rates in the MAERT for startup and shutdown will be demonstrated if the SO<sub>2</sub> emissions during startup

and shutdown are in compliance with the SO<sub>2</sub> emission rate in the MAERT for startup and shutdown.

41. Following the initial demonstration of compliance, ongoing compliance with the emission limits for the sources and emission limitations listed in this condition shall be through source operation in accordance with manufacturer's specifications, or in accordance with written procedures that are shown to maintain operating conditions necessary for emission compliance. The Executive Director of the TCEQ or his designated representative may also require direct measurement of emissions using the sampling methods and procedures specified in Special Condition No. 31 to establish compliance with the limitations, in which case the sampled emission rate will be used to determine compliance.
  - A. The auxiliary boiler, EPN S02, emission limitations of Special Condition No. 15A and 15B and the MAERT.
  - B. The emergency diesel engines, EPNs S33 and S34, emission limitations in the MAERT.
42. Following the initial demonstration of compliance, ongoing compliance with the emission rates in the MAERT for the cooling tower, EPN S32, will be based on annual inspection of modules, and repair as necessary to maintain drift eliminator structural integrity and minimize bypassing of flow around drift eliminators.
43. Following the initial demonstration of compliance, ongoing compliance with the emission rates in the MAERT for the coal, ash, and lime material handling baghouses will be demonstrated by annual opacity testing using TM 9 for EPNs S03a, S09, S11, and S13 and TM 22 for EPNs S18, and S29. The Executive Director of the TCEQ or his designated representative may also require sampling conducted in accordance with the methods and procedures specified in Special Condition No. 31 to directly measure the lb/hr emission rate, in which case the sampled lb/hr emission rate will be used to determine compliance with the applicable emission rate in the MAERT.
44. Compliance with the emission rates in the MAERT for the fuel storage tanks, EPN S37 and S38, will be demonstrated by compliance with Special Condition No. 20.
45. The permit holder shall monitor and record the rate of sorbent injection into the spray dryer absorber during all normal coal-fired operations of the pulverized coal boiler (EPN S01) ("Operating Sorbent Rate"). If the Operating Sorbent Rate experiences abnormal variations from the Demonstration Sorbent Injection Rate, as

defined in Special Condition No. 30.A.(8), then the permit holder shall take prompt and appropriate corrective action consistent with good air pollution control practices, and shall include a summary of any abnormal variations and corrective actions taken in the report required by Special Condition No. 48.

### **Recordkeeping Requirements**

46. The following records shall be kept at the plant for the life of the permit. All records required in this permit shall be made available at the request of personnel from the TCEQ, the EPA, or any air pollution control agency with jurisdiction.
  - A. A copy of this permit.
  - B. A copy of the permit application dated January 9, 2004 and all subsequent updates submitted to the TCEQ.
  - C. A complete copy of the testing reports and records of the initial air emissions performance testing completed pursuant to the Initial Demonstration of Compliance.
  - D. Required stack sampling results or other air emissions testing (other than CEMS or COMS data) that may be conducted on units authorized under this permit after the date of issuance of this permit.
47. The following records shall be kept for a minimum of five years after collection and shall be made immediately available upon request to representatives of the TCEQ, the EPA, or any local air pollution control program having jurisdiction. Records shall be legible and maintained in an orderly manner. The following records shall be maintained:
  - A. Continuous emission monitoring data for opacity, SO<sub>2</sub>, NO<sub>x</sub>, CO, and diluent gases, O<sub>2</sub> or CO<sub>2</sub>, from CEMS to demonstrate compliance with the emission rates listed in the MAERT and performance standards listed in this permit for pollutants that are monitored by CEMS or COMS. Data retention at intervals less than one hour is not required. Records should identify the times when emissions data have been excluded from the calculation of average emission rates because of startup, shutdown, maintenance, and malfunction along with the justification for excluding data. Records should also identify factors used in calculations that are used to demonstrate compliance with emissions limits

and performance standards.

- B. Files of all CEMS or COMS quality assurance measures, calibration checks, adjustments and maintenance performed on these systems.
- C. Steam turbine generator hourly gross electrical output in MW, including identification of shutdown intervals, for compliance with output based performance specifications of this permit.
- D. Written coal analysis for all coal received from each coal supplier to show compliance with the sulfur and trace metal concentration limits of this permit, and written analysis provided by natural gas and diesel fuel suppliers to show compliance with the sulfur content limitations of this permit.
- E. Average coal feed rate to the PC Boiler in pounds per hour and the corresponding average heat input (HHV) in MMBtu/hr, based upon an average over each calendar month.
- F. Monthly and rolling 12-month emissions of plant-wide HAP, including all calculations made to comply with Special Condition Nos. 11, 37, and 38.
- G. Ammonia feed rate and sorbent feed rate established during a successful initial performance test to fulfill the requirements of Special Condition No. 12.
- H. Hours of operation of the emergency generator, emergency fire water pump, and auxiliary boiler to show compliance with the hourly operating limitations of this permit.
- I. Tons of coal received at the site monthly to show compliance with the throughput requirements of this permit.
- J. The amount of fuel received for storage in EPN S37 and S38 and the consecutive 12-month total of fuel received for each source to show compliance with the throughput requirements of this permit.
- K. Records of cleaning and maintenance performed on abatement equipment, including records of replacement maintenance performed on baghouses and conveyors. A log should be kept with descriptions of the activity performed and the time period over which it was performed.
- L. Records required to show compliance with 40 CFR part 60, Subparts Da, Db,

and Y, including records of required reporting.

- M. Records of daily road maintenance for dust control to show compliance with Special Condition No. 24.
- N. Records of audio, olfactory, and visual checks for ammonia and water treatment chemicals leaks and repairs to show compliance with Special Condition No. 19.

## Reporting

- 48. The holder of this permit shall submit to the TCEQ Waco Regional Office and the Air Enforcement Branch of EPA in Dallas quarterly reports as described in 40 CFR § 60.7. Such reports are required for each emission unit which is required to be continuously monitored pursuant to this permit.
- 49. The following sources and/or activities are authorized under a Permit by Rule (PBR) by Title 30 Texas Administrative Code Chapter 106 (30 TAC Chapter 106) or a Standard Permit. These lists are not intended to be all inclusive and can be altered without modifications to this permit.

Authorization	Source or Activity
Standard Permit No. 95851	Natural Gas-fired Auxiliary Boiler (278 MMBtu/hr)

Authorization	Source or Activity
PBR No. 97212	Emergency Reclaim Conveyor, Emergency Reclaim Hopper, Coal Transfer Tower-Baghouse vent, Reclaim Conveyor #2, Pebble Lime Silo 2 Loading-Baghouse Vent, Hydrated Lime Silo 3 Loading-Baghouse Vent, Fire Water Booster Pump Engine, Diesel Fuel Storage Tank (290 gallons), Activated Carbon Silo-Baghouse Vent, Recycled Ash Silo-Baghouse Vent, Lube Oil Mist Eliminator Vent, Lube Oil Tank, Sulfuric Acid Tank- Condensate Polishing, Sodium Hypochlorite Tank-Cooling Water Treatment, Sodium Bromide Tank-Cooling Water Treatment, Caustic Tank-Condensate Polishing, Sulfuric Acid Tank-Cooling Water Treatment, Sulfuric Acid Tank-Process Water Treatment, Sodium Hypochlorite Tank-Process Water Treatment, Ferric Chloride Tank-Process Water Treatment, Caustic Tank-Process Water Treatment, Hydraulic Fluid Tank, Two Diesel Fuel Storage Tanks (5,000 gallons each), Recycled Ash Wetting/Mixing Drop from Silo to Mix Tank (6).
PBR No. 129417	Silos as well as loading, Feed Hoper to Water Tank, and Heaters.

Date: May 26, 2016

**Attachment A**  
**Non-mercury Metal Concentrations in Coal and Emission Performance Standards**

<b>Constituent</b>	<b>Annual Average Concentration (ppmw)</b>	<b>Performance Standard (lb/MMBtu)</b>
Beryllium	1.7	5.0 (10 <sup>-7</sup> )
Lead	9.48	6.7 (10 <sup>-6</sup> )
Arsenic	25	1.0 (10 <sup>-5</sup> )
Cadmium	0.27	9.0 (10 <sup>-7</sup> )
Vanadium	33	2.1 (10 <sup>-4</sup> )
Nickel	12	7.0 (10 <sup>-6</sup> )
Silver	0.20	1.2 (10 <sup>-6</sup> )
Barium	660	3.0 (10 <sup>-3</sup> )
Chromium	11	7.0 (10 <sup>-6</sup> )
Copper	20	8.8 (10 <sup>-5</sup> )
Manganese	110	3.0 10 <sup>-5</sup> )
Antimony	1.18	4.0 (10 <sup>-7</sup> )
Selenium	1.68	7.0 (10 <sup>-6</sup> )
Zinc	35	1.7 (10 <sup>-4</sup> )
Cobalt	4	2.0 (10 <sup>-6</sup> )

Date: May 26, 2016

# Emission Sources - Maximum Allowable Emission Rates

Permit Number 70861 and PSDTX1039

This table lists the maximum allowable emission rates and all sources of air contaminants on the applicant's property covered by this permit. The emission rates shown are those derived from information submitted as part of the application for permit and are the maximum rates allowed for these facilities, sources, and related activities. Any proposed increase in emission rates may require an application for a modification of the facilities covered by this permit.

## Air Contaminants Data

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
SO1	Pulverized Coal (PC) Boiler (8,185 MMBtu/hr)	NO <sub>x</sub> (30-day)	573	1,793
		NO <sub>x</sub> (1-hr)	1,637	--
		SO <sub>2</sub> (30-day)	982	3,585
		SO <sub>2</sub> (1-hr)	2,456	--
		PM/PM <sub>10</sub> (filterable)	123	538
		PM/PM <sub>10</sub> (total)	246	1,076
		CO (30-day)	1,228	5,378
		CO (1-hr)	2,456	--
		VOC	29	129
		Organic HAP	--	8.5
		Sulfuric acid mist	127	133
		Hydrogen fluoride	2.0	8.6
		Hydrogen chloride	2.2	9.7
		Total Halogenated Acids (5)	--	10.7
		Ammonia	41	55
		Lead	0.55	0.41
		Mercury	0.94	0.038
SO1	Startup Emissions PC Boiler	NO <sub>x</sub>	964	--
		SO <sub>2</sub>	2,892	--
		PM/PM <sub>10</sub> (filterable)	123	--
		PM/PM <sub>10</sub> (total)	327	--
		CO	1,228	--
		VOC	43	--

## Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
		Sulfuric acid mist	111	--
		Hydrogen fluoride	6	--
		Hydrogen chloride	3	--
		Ammonia	41	--
		Lead	0.55	--
		Mercury	0.90	--
So3a	Railcar Coal Unloading – Baghouse Vent	PM	0.28	0.15
		PM <sub>10</sub>	0.13	0.072
So3b	Railcar Coal Unloading – Coal Dust Fugitives (6)	PM	0.28	0.15
		PM <sub>10</sub>	0.13	0.072
So5	Stackout Conveyor #1 – Coal Dust Fugitives (6)	PM	0.25	0.15
		PM <sub>10</sub>	0.12	0.070
So6	Stackout Conveyor #2 – Coal Dust Fugitives (6)	PM	0.13	0.074
		PM <sub>10</sub>	0.059	0.035
So7	Active Coal Pile #1 – Coal Dust Fugitives (6)	PM	0.08	0.36
		PM <sub>10</sub>	0.041	0.18
So8	Active Coal Pile #2 – Coal Dust Fugitives (6)	PM	0.08	0.36
		PM <sub>10</sub>	0.041	0.18
So9	Active Coal Pile Reclaim – Baghouse Vent	PM	0.002	0.005
		PM <sub>10</sub>	<0.001	0.002
S10	Reclaim Conveyor #1 – Coal Dust Fugitives (6)	PM	0.053	0.104
		PM <sub>10</sub>	0.025	0.049
S11	Coal Transfer Tower - Baghouse Vent	PM	0.083	0.049
		PM <sub>10</sub>	0.039	0.023
S13	Tripper Deck Silo	PM	0.0015	0.0015

## Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
	Bay - Enclosed Conveyor - Baghouse Vent	PM <sub>10</sub>	<0.001	<0.001
S14	Inactive Coal Pile - Coal Dust Fugitives (6)	PM	0.26	1.12
		PM <sub>10</sub>	0.13	0.56
S15	Bottom Ash Conveyor & Drop to Bunker - Dust Fugitives (6)	PM	0.0014	0.0014
		PM <sub>10</sub>	0.00064	0.00068
S16	Bottom Ash Bunker - Truck Loadout - Dust Fugitives (6)	PM	0.041	0.0057
		PM <sub>10</sub>	0.019	0.0027
S18	Fly Ash Silo – Conveyor Loading – Baghouse Vent	PM	0.31	0.39
		PM <sub>10</sub>	0.11	0.14
S24	Fly Ash Transfer Point #2 – Dust Fugitives (6)	PM	0.044	0.027
		PM <sub>10</sub>	0.021	0.013
S26	Fly Ash Landfill – Dust Fugitives (6)	PM	0.31	1.36
		PM <sub>10</sub>	0.16	0.68
S29	Pebble Lime Silo 1 – Pneumatic Loading – Baghouse Vent	PM	0.090	0.0015
		PM <sub>10</sub>	0.043	0.0007
S32	Cooling Tower	PM <sub>10</sub>	11	50
S33	Diesel-fired Engine – Emergency Generator (1,500 kW)	NO <sub>x</sub>	25.7	1.29
		SO <sub>2</sub>	0.53	0.027
		CO	2.53	0.13
		PM/PM <sub>10</sub> /PM <sub>2.5</sub>	0.22	0.011
		VOC	0.53	0.027
S34	Diesel-fired Emergency Fire Water Pump (403 hp)	NO <sub>x</sub>	3.41	0.17
		SO <sub>2</sub>	0.11	0.0053
		CO	0.66	0.033

## Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
		PM/PM <sub>10</sub> /PM <sub>2.5</sub>	0.081	0.0040
		VOC	0.14	0.0071
S37	Diesel Fuel Storage Tank (800 gallons)	VOC	0.023	<0.001
S38	Diesel Fuel Storage Tank (580 gallons)	VOC	0.056	<0.001
S39	Aqueous Ammonia Fugitives (6)	Ammonia	0.16	0.70

(1) Emission point identification - either specific equipment designation or emission point number from plot plan.

(2) Specific point source name. For fugitive sources, use area name or fugitive source name.

(3) NO<sub>x</sub> - total oxides of nitrogen

SO<sub>2</sub> - sulfur dioxide

PM - total particulate matter, suspended in the atmosphere, including PM<sub>10</sub> and PM<sub>2.5</sub>, as represented

PM<sub>10</sub> - total particulate matter equal to or less than 10 microns in diameter, including PM<sub>2.5</sub>, as represented

CO - carbon monoxide

VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code §101.1

HAP - hazardous air pollutants

(4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period. Annual limits include emissions from normal and planned maintenance, startup, and shutdown emissions.

(5) Total halogenated acids equals the sum of hydrogen chloride and hydrogen fluoride emissions. Although separate annual emission limits are established for HCl and HF, total annual emissions of these air pollutants shall not exceed the single annual emission limit for total halogenated acids.

(6) Fugitive emission rate is an estimate and is enforceable through compliance with the applicable special conditions and permit application representations.

Date: May 26, 2016